

Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China

October 18, 2006

RDW rijksdienst voor het wegverkeer
Components and Motorcycles
Pestbus777
2700 AT Zoetermeer
The Netherlands

Dear Sirs

We as manufacturer/~~authorized representative~~¹ ask for a type approval acc. to 2002/24/EC for the following vehicle type:

¹delete where applicable

Vehicle type : XT650GK

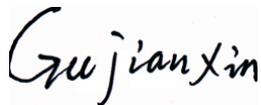
Vehicle category : L7e

Name and address manufacturer : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China

Name and address of manufacturers representative : not applicable

We confirm that the above mentioned application has not been submitted to any Other EC member state nor has any member state granted a corresponding type approval.

With best regards,



Mr. Gu Jianxin/ General manager
Jiangsu Kinroad Xintian Motorcycle Co., Ltd.





THE NETHERLANDS
(N E D E R L A N D)



EC TYPE-APPROVAL CERTIFICATE



Communication concerning:

- TYPE-APPROVAL ⁽¹⁾
- ~~- EXTENSION OF TYPE APPROVAL ⁽¹⁾~~
- ~~- REFUSAL OF TYPE APPROVAL ⁽¹⁾~~
- ~~- WITHDRAWAL OF TYPE APPROVAL ⁽¹⁾~~

of a type of vehicle with regard to directive 2002/24/EC as last amended by directive 2006/27/EC.

EC type-approval number : **e4*2002/24*1470*00**
Reason for extension : not applicable
Approval mark : *e4*2002/24*1470*

- 0. General
- 0.1. Make(s) (trade name of the manufacturer) : XinTian, Kinroad, JIEHAO, DORTON, BRANSON
- 0.2. Type : XT650GK
 - Variant : ---
 - Versions : version1: XT650GK-A
version2: XT650GK-B
- 0.2.1. Commercial name(s) : CYCLONE; GRAND EXPOITER; GRAND NASA ; GRAND ELF; D-650GK-2; BB650 Explorer; DH650-DB
- 0.3. Means of identification of type, if marked on the vehicle : not applicable
 - 0.3.1. Location of that marking : not applicable
- 0.4. Category ⁽²⁾ : L7e
- 0.5. Name and address of the vehicle manufacturer : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China
 - 0.5.1. Name(s) and address(es) of assembly plant(s) : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China

Type-approval number: e4*2002/24*1470*00

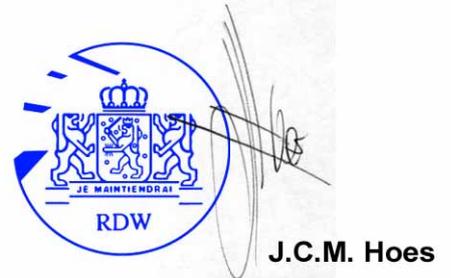
The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle type described above, for which one or several representative samples, selected by the competent approval authorities, has (have) been submitted as prototype(s) of the vehicle type and that the attached test results are applicable to the vehicle type.

The vehicle type meets/~~does not meet~~⁽¹⁾ the technical requirements of all relevant separate Directives (as last amended) listed in the table of Annex I to Directive 2002/24/EC.

The approval is granted/~~refused/withdrawn~~⁽¹⁾.

Place : Zoetermeer

Signature :



Date : 06-March-2007

- Attachments:
- Information document, Parts 1 and 2 (Annex II).
 - Test results (Annex VII).
 - Name(s) and specimen(s) of the signature of the persons authorised to sign the certificates of conformity and a statement of their position in the company.
 - A model certificate of conformity.

⁽¹⁾ Delete where not applicable.

⁽²⁾ According to the classification introduced in Article 1.



ANNEX VII
TEST RESULTS

(Article 5(1), first subparagraph)

In each case, the information must make clear to which variant and version it is applicable. One version may not have more than one result.

1. Results of the sound level tests.
Number of the base Directive and latest amending Directive applicable to the approval.
In the case of a Directive with two or more implementation stages, indicate also the implementation stage:

97/24/EC chapter 9 amend. 2006/27/EC

Variant/version	version1: XT650GK-A version2: XT650GK-B	---	---
Moving dB(A)	80	---	---
Stationary dB(A)	90	---	---
at (min ⁻¹)	3000	---	---

2. Results of the exhaust emission tests.

Number of the base Directive and latest amending Directive applicable to the approval.
In the case of a Directive with two or more implementation stages, indicate also the implementation stage:

97/24/EC amend. 2006/27/EC chapter 5, (row A of table, Annex II, Section 2.2.1.1.5)

Variant/version	version1: XT650GK-A version2: XT650GK-B	---	---

- 2.1. Type I

CO (g/km)	4.09	---	---
HC (g/km) ⁽¹⁾	0.34	---	---
NO _x (g/km) ⁽¹⁾	0.25	---	---
HC + NO _x (g/km) ⁽²⁾	---	---	---

- 2.2. Type II

CO (g/min) ⁽²⁾	---	---	---
HC (g/min) ⁽²⁾	---	---	---
CO (% vol) at normal idle speed ⁽¹⁾	0.04	---	---
Specify the idle speed ^{(1) (3)} (min ⁻¹)	900 ±100	---	---
CO (% vol) at high idle speed ⁽¹⁾	0.03	---	---
Specify the idle speed ^{(1) (3)} (min ⁻¹)	2500±100	---	---
Engine oil temperature ^{(1) (4)}	84°C	---	---

3. Compression ignition engine

Variant/version	---	---	---
Corrected value of absorption coefficient (m ⁻¹)	---	---	---

⁽¹⁾ Only for motorcycles and motor tricycles and for quadricycles as defined in Article 1, paragraph 3(b).

⁽²⁾ Only for mopeds and for light quadricycles as defined in Article 1, paragraph 3(a).

⁽³⁾ Mention the measurement tolerance.

⁽⁴⁾ Applicable for four-stroke engines only.

Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

Document information about **four-wheel motorcycles**

Reference number of information document: **2002/24-XT650GK-00**

Application date: **October 18, 2006**



LIST OF CONTENT

- I. **2002/24 INFORMATION DOCUMENT – GENERAL INFORMATION**
- II. **CONTENT OF DRAWINGS**

Drawing no.	Drawing subject
XT650GK-01	Complete Vehicle Dimension
XT650GK-01A	Complete Vehicle Dimension(A)
XT650GK-02	Cylinder Head
XT650GK-03	Piston
XT650GK-04	The first piston ring
XT650GK-05	The second piston ring
XT650GK-06	The third piston ring
XT650GK-07	Cylinder
XT650GK-08	Fuel Tank
XT650GK-09	Fuel Tank Installation
XT650GK-10	Ignition Advance Curve
XT650GK-11	Anti-radiation Spark Plug
XT650GK-12	Anti-radiation High Voltage Cap
XT650GK-13	Induction System
XT650GK-14	Induction Manifold
XT650GK-15	Air Filter
XT650GK-16	Complete Exhaust System
XT650GK-17	Exhaust pipe work
XT650GK-18	Catalyst
XT650GK-19	Engine cycles
XT650GK-20	Crankcase-gas Recycling Device
XT650GK-21	Transmission Diagram
XT650GK-22	Speedometer (1)
XT650GK-23	Speedometer (2)
XT650GK-24	Front/rear Suspension
XT650GK-25	Brake system
XT650GK-26	Front Brake
XT650GK-27	Rear Brake
XT650GK-28	Foot Break pedal
XT650GK-29	Hydraulic Reservoir
XT650GK-30	Parking Brake Handle Bar

Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

XT650GK-31	Light installation
XT650GK-32	Control I.D., Indicator tell-tale
XT650GK-33	Location of The Statutory Chassis Number & VIN
XT650GK-34	Anti-theft Device
XT650GK-35	Horn Installation
XT650GK-36	Space for Rear Registration Plate
XT650GK-37	Mirror Installation
XT650GK-38	Chassis
XT650GK-39	Engine External View
XT650GK-40	Installation position of the safety belt

III STATEMENT CONCERNING ANTI TAMPERING REQUIREMENTS AND ANTI THEFT DEVICE (IF APPLICABLE)



**2002/24/EC ANNEX II
INFORMATION DOCUMENT ^(a)**

PART 1

**A. INFORMATION RELATING JOINTLY TO MOPEDS, MOTOR CYCLES, MOTOR TRICYCLES AND
QUADRICYCLES**

0.	General	
0.1.	Make	: XinTian; Kinroad; JIEHAO; DORTON; branson
0.2.	Type (state any possible variants and versions: each variant and each version must be identified by a code consisting of numbers or a combination of letters and numbers)	: XT650GK Version 1:XT650GK-A Version 2:XT650GK-B
0.2.1.	Commercial name (where applicable)	: CYCLONE; GRAND EXPOITER; GRAND NASA ; GRAND ELF; D-650GK-2; BB650 Explorer; DH650-DB
0.3.	Means of type identification if stated on vehicle ^(b)	: n.a.
0.3.1.	Location of that means of identification	: n.a.
0.4.	Vehicle category ^(c)	: L7e
0.5.	Name and address of manufacturer	: Jiangsu Kinroad Xintian motorcycle Co., Ltd. Outang Town, Wuxi City,214153, Jiangsu Province P.R. China
0.5.1.	Name(s) and adresse(s) of assembly plants	: Jiangsu Kinroad Xintian motorcycle Co., Ltd. Outang Town, Wuxi City,214153, Jiangsu Province P.R. China
0.6.	Name and address of manufacturer's authorised representative, if any	: n.a.
0.7.	Location and method of affixing statutory inscriptions to the chassis	: Statutory inscription on the chaises baseboard stand by rivets and VIN number stamped on the right side of chassis
0.7.1.	The serial numbering of the type begins with No	: LBXGDVVA?6X000001 The ninth character "?"means check number calculated automatically by VIN-print system, possible character including: "0,1,2,3,4,5,6,7,8,9,,X"
0.8.	Position and method of affixing the component type-approval mark for components and separate technical units	: Mark on the surface of the component and made by molding
1.	General arrangement of the vehicle	
1.1.	Photos and/or drawings of a typical vehicle	: Refer to drawing No. XT650GK-01 XT650GK-01A



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

1.2.	Dimensional drawing of the complete vehicle	:	Refer to drawing No. XT650GK-01 XT650GK-01A
1.2.1.	Wheel base	:	1960mm
1.3.	Number of axles and wheels (where appropriate, number of crawler tracks or belts)	:	2 axles / 4 wheels
1.4.	Position and arrangement of engine	:	In the rear of the frame body, transversally installed and 5° installed from horizontal
1.5.	Number of seating positions	:	2
1.6.	Hand of drive - left or right ⁽¹⁾	:	
1.6.1.	Vehicle is equipped to be driven in right-hand or left-hand rule of the road traffic ⁽¹⁾	:	Version 1:right-hand rule Version 2: left-hand rule
2.	Masses (in kg) ⁽²⁾		
2.0.	Unladen mass ^{(d) (i)}	:	398kg
2.1.	Mass of vehicle in running order ⁽ⁱ⁾	:	413kg
2.1.1.	Distribution of that mass between the axles	:	Front: 164kg Rear: 249kg
2.2.	Mass of vehicle in running order , together with rider	:	488kg
2.2.1.	Distribution of that mass between the axles	:	Front: 210kg Rear: 278kg
2.3.	Maximum technically permissible mass declared by the manufacturer	:	563kg
2.3.1.	Division of that mass between the axles	:	Front: 237kg Rear: 326kg
2.3.2.	Maximum technically permissible mass on each of the axles	:	Front:240kg Rear:350kg
2.4.	Maximum hill-starting ability at the maximum technically permissible mass declared by the manufacturer	:	30%
2.5.	Maximum towable mass (where applicable)	:	n.a.
2.6.	Maximum mass of the combination	:	n.a.
3.	Engine ^(e)		
3.0.	Manufacturer	:	Taixing lingdi chinery Co., Ltd.
3.1.	Make	:	XinTian; Kinroad; JIEHAO; DORTON
3.1.1.	Type (stated on the engine, or other means of identification)	:	LJ276M
3.1.2.	Location of engine number (if applicable)	:	On top of the cylinder head
3.2.	Spark- or compression-ignition engine ⁽¹⁾	:	Spark-ignition engine
3.2.1.	Specific characteristics of the engine	:	
3.2.1.1.	Operating cycle (four or two-stroke, spark or compression ignition) ⁽¹⁾	:	Four-stroke; Spark ignition



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

3.2.1.2.	Number, arrangement and firing order of cylinders	:	2 cylinder, LI
3.2.1.2.1.	Bore ^(f)	:	76.0 mm
3.2.1.2.2.	Stroke ^(f)	:	71.0 mm
3.2.1.3.	Cylinder capacity ^(g)	:	644cm ³
3.2.1.4.	Compression ratio ⁽²⁾	:	8.4± 0.1 : 1
3.2.1.5.	Drawings of cylinder head, piston(s), piston rings and cylinder(s)	:	Refer to drawing No. XT650GK-02, XT650GK-03, XT650GK -04, XT650GK -05, XT650GK -06, XT650GK-07
3.2.1.6.	Idling speed	:	900±50 min ⁻¹
3.2.1.7.	Maximum net power output	:	12.5Kw/4000min ⁻¹
3.2.1.8.	Net maximum torque	:	32N.m/3500min ⁻¹
3.2.2.	Fuel	:	Petrol
3.2.3.	Fuel tank		
3.2.3.1.	Maximum capacity ⁽²⁾	:	22L ± 1L
3.2.3.2.	Drawing of tank with indication of material used	:	refer to drawing No.XT650GK-08
3.2.3.3.	Diagram clearly indicating the position of the tank on the vehicle	:	refer to drawing No.XT650GK-09
3.2.3.4.	Approval number of the fuel tank fitted	:	n.a.
3.2.4.	Fuel supply		
3.2.4.1.	Via carburettor(s)	:	yes/æ ⁽¹⁾
3.2.4.1.1.	Make(s)	:	XIANGLI
3.2.4.1.2.	Type(s)	:	CSH101E
3.2.4.1.3.	Number fitted	:	1
3.2.4.1.4.	Settings ⁽²⁾		
	i.e. of		
3.2.4.1.4.1.	Diffusers	:	Ø1.26 ^{+0.005} mm
3.2.4.1.4.2.	Level in float chamber	:	15mm±1mm
3.2.4.1.4.3.	Mass of float	:	12g±0.5g
3.2.4.1.4.4.	Float needle	:	Ø8±0.1mm
	or		
3.2.4.1.4.5.	Fuel curve as a function of the air flow and setting required in order to maintain that curve	:	n.a.
3.2.4.1.5.	Cold-starting system ⁽¹⁾	:	manual
3.2.4.1.5.1.	Operating principle(s)	:	Enrich the air fuel mixture rate by using the choke mechanism to assist the cold starting. The choke is controlled by choke switch
3.2.4.2.	By fuel injection (solely in the case of compression ignition) (yes/no)	:	n.a.
3.2.4.3.	By fuel injection (solely in the case of spark-ignition)	:	n.a.



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

3.2.4.4.	Fuel pump	:	n.a.
3.2.5.	Electrical equipment		
3.2.5.1.	Nominal voltage	:	12V, negative earth
3.2.5.2.	Generator		
3.2.5.2.1.	Type	:	JF138A
3.2.5.2.2.	Nominal power	:	480 W
3.2.6.	Ignition		
3.2.6.1.	Make(s)	:	JIAQI
3.2.6.2.	Type(s)	:	GFDW-6
3.2.6.3.	Operating principle	:	CDI
3.2.6.4.	Ignition advance curve or operating set point ⁽²⁾	:	refer to drawing No. XT650GK-10
3.2.6.5.	Static timing ⁽²⁾	:	6± 2° before TDC
3.2.6.6.	Points gap ⁽²⁾	:	n.a.
3.2.6.7.	Dwell angle ⁽²⁾	:	n.a.
3.2.6.8.	Anti-radio interference system		
3.2.6.8.1.	Terminology and drawing of anti-radio interference equipment	:	By using the resistance to regulate the radio interference refer to drawing No.XT650GK-11 refer to drawing No.XT650GK-12
3.2.6.8.2.	Indication of the nominal DC resistance value and, in the case of resistive ignition leads, statement of nominal resistance per metre	:	Spark plug: 5± 0.5k Ω High-voltage cap: 5 ± 0.5k Ω
3.2.7.	Cooling system (liquid/air) ⁽¹⁾	:	liquid cooling
3.2.7.1.	Nominal setting for the engine-temperature control device	:	80° C
3.2.7.2.	Liquid	:	Yes
3.2.7.2.1.	Nature of liquid	:	Water and anti-freeze liquid
3.2.7.2.2.	Circulating pump(s)	:	yes
3.2.7.3.	Air		
3.2.7.3.1.	Blower	:	n.a.
3.2.8.	Induction system		
3.2.8.1.	Supercharging	:	no
3.2.8.1.1.	Make(s)	:	n.a.
3.2.8.1.2.	Type(s)	:	n.a.
3.2.8.1.3.	Description of system [example: maximum boost pressure in kPa, waste gate (where appropriate)]	:	n.a.
3.2.8.2.	Intercooler	:	without
3.2.8.3.	Description and drawings of induction pipework and accessories (plenum chamber, heating device, additional air intakes, etc.)	:	refer to drawing No. XT650GK-13



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

3.2.8.3.1.	Description of induction manifold (with drawings and/or photos)	: refer to drawing No. XT650GK-14
3.2.8.3.2.	Air filter, drawings or	: refer to drawing No. XT650GK-15
3.2.8.3.2.1.	Make(s)	: n.a.
3.2.8.3.2.2.	Type(s)	: n.a.
3.2.8.3.3.	Inlet silencer, drawings or	: refer to drawing No. XT650GK-15
3.2.8.3.3.1.	Make(s)	: n.a.
3.2.8.3.3.2.	Type(s)	: n.a.
3.2.9.	Exhaust system	
3.2.9.1.	Drawing of complete exhaust system	: refer to drawing No.XT650GK-16
3.2.10.	Minimum cross-section of the inlet and exhaust ports	: 452mm ² at the inlet conduit 314mm ² at the outlet of the exhaust
3.2.11.	Induction system or equivalent data	
3.2.11.1.	Maximum valve lift, opening and closing angles in relation to the dead centres, or data concerning the settings of other possible systems	: Maximum valve lift 8.010mm Refer to drawing No.XT650GK -19
3.2.11.2.	Reference and/or setting ranges ⁽¹⁾	: Inlet: 7.147mm Exhaust: 7.241mm
3.2.12.	Measures taken against air pollution	
3.2.12.1.	Device for recycling crankcase gases, solely in the case of four-stroke engines (description and drawings)	: Refer to drawing No.XT650GK-20
3.2.12.2.	Additional anti-pollution devices (if any, and if not covered by another heading)	: Catalytic converter in exhaust pipe
3.2.12.2.1.	Catalytic converter	: Yes/æ (*)
3.2.12.2.1.1	Number of catalytic converters and elements	: 1 catalytic converter; 1 element
3.2.12.2.1.2	Dimensions, shape and volume of the catalytic converter(s)	: refer to drawing No.XT650GK-17 Ø63.5x100mm
3.2.12.2.1.3	Type of catalytic action	: oxidation
3.2.12.2.1.4	Total charge of precious metal	: 50g/ft ³
3.2.12.2.1.5	Relative concentration	: Pt : Rh =5:1
3.2.12.2.1.6	Substrate(structure and material)	: Honeycomb; Material: Fe-Cr-Al
3.2.12.2.1.7	Cell density	: 400cpsi
3.2.12.2.1.8	Type of casting for the catalytic converter(s)	: Clamshell
3.2.12.2.1.9	Location of the catalytic converter(s) (place and reference distance in the exhaust line)	: refer to drawing No.XT650GK-17
3.2.12.2.2.	Oxygen sensor	: Yes /no (*)
3.2.12.2.2.1	Type	: n.a.
3.2.12.2.2.2	Location	: n.a.
3.2.12.2.2.3	Control range	: n.a.



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

3.2.12.2.3.	Air injection	:	Yes/no (*)
3.2.12.2.3.1	Type (pulse air, air pump etc.)	:	n.a.
3.2.12.2.4.	Exhaust gas recirculation	:	Yes/no (*)
3.2.12.2.4.1	Characteristics (flow rate etc.)	:	n.a.
3.2.12.2.5.	Other system (description and operation)	:	n.a.
3.2.13.	Location of the coefficient of absorption symbol (compression-ignition engines only)	:	n.a.
3.3.	Electric traction motor		
3.3.1.	Type (winding, excitation)	:	n.a.
3.3.1.1.	Maximum continuous rated power ^(k)	:	n.a.
3.3.1.2.	Operating voltage	:	n.a.
3.3.2.	Battery		
3.3.2.1.	Number of cells	:	n.a.
3.3.2.2.	Mass	:	n.a.
3.3.2.3.	Capacity	:	n.a.
3.3.2.4.	Location	:	n.a.
3.4.	Other motors or combinations of motors (specific information concerning the parts of those motors)	:	n.a.
3.5.	Cooling system temperatures permitted by the manufacturer		
3.5.1.	Liquid cooling		
3.5.1.1.	Maximum temperature at outlet	:	95°C
3.5.2.	Air cooling		
3.5.2.1.	Reference point	:	n.a.
3.5.2.2.	Maximum temperature at reference point	:	n.a.
3.6.	Lubrication system		
3.6.1.	Description of system	:	Pressure spray
3.6.1.1.	Location of oil reservoir (if any)	:	Inside the engine case
3.6.1.2.	Feed system (pump/injection into induction system/mixed with the fuel, etc.) ⁽¹⁾	:	pump
3.6.2.	Lubricant mixed with the fuel		
3.6.2.1.	Percentage	:	n.a.
3.6.3.	Oil cooler	:	n.a.
3.6.3.1.	Drawing(s)	:	n.a.
	or		
3.6.3.1.1.	Make(s)	:	n.a.
3.6.3.1.2.	Type(s)	:	n.a.
4.	Transmission ^(h)		
4.1.	Diagram of transmission system	:	refer to drawing No. XT650GK-21



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

- 4.2. Type (mechanical, hydraulic, electrical, etc.) : Mechanical
- 4.3. Clutch (type) : Multi-plate wet clutch
- 4.4. Gearbox
- 4.4.1. Type : Manual
- 4.4.2. Method of selection : n.a.
- 4.5. Gear ratios

N	R1	R2	R3	Rt
1	1.33	4.00	5.20	27.66
2	1.33	2.80	5.20	19.37
3	1.33	2.11	5.20	14.59
4	1.33	1.33	5.20	9.20
reverse	1.33	3.36	5.20	23.26

N gear ratio

R1= primary ratio (ratio of engine speed to rotational speed of primary gear box shaft)

R2= secondary ratio (ratio of rotational speed of primary shaft to rotational speed of secondary shaft in gearbox).

R3= final drive ratio (ratio of rotational speed of gearbox output shaft to rotational speed of driven wheels).

Rt = overall ratio.

- 4.5.1. Brief description of the electrical and/or electronic components used in the transmission : n.a.
- 4.6. Maximum speed of vehicle and gear in which it is reached (in km/h)⁽ⁱ⁾ : 60km/h
- 4.7. Speedometer
- 4.7.1. Make(s) : XD
- 4.7.2. Type(s) : 1. XIDONG-00
2. XIDONG-01
- 4.7.3. Photographs and/or drawings of the complete system : Refer to drawing No.XT650GK-22
Refer to drawing No.XT650GK-23
- 4.7.4. Speed range displayed : 0~100km/h
- 4.7.5. Tolerance of the measuring mechanism of the speedometer :



Actual speed (Km/h)	30	40	50	60	80
Speedometer tolerance	20%	20%	18%	16%	15%
Speedometer range displayed (Km/h)	30-36	40-48	50-59	60-70	80-92

- 4.7.6. Technical constant of the speedometer : 3.06 rpm/degree
- 4.7.7. Method of operation and description of the drive mechanism : Electromagnetic induction
- 4.7.8. Overall transmission ratio of the drive mechanism : n.a.

5. Suspension

- 5.1. Drawing of suspension arrangement : Refer to drawing No. XT650GK-24

Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

5.1.1.	Brief description of the electrical and/or electronic components used in the suspension	: n.a.
5.2.	Tyres (category, dimensions and maximum loading) and rims (standard type)	: Tyre: Front: 25x8.0- 12 42J Rear: 25x10- 12 47J RIM: Front:12X6 Rear:12X8
5.2.1.	Nominal rolling circumference	: Front: 1880mm Rear: 1930mm
5.2.2.	Tyre pressures recommended by the manufacturer	: Front: 100kPa Rear: 100kPa
5.2.3.	Tyre/wheel combinations	: n.a.
5.2.4.	Minimum-speed category symbol compatible with the theoretical maximum design speed of the vehicle	: F
5.2.5.	Minimum load-capacity index with the maximum load on each tyre	: Front: 35 Rear: 47
5.2.6.	Categories of use compatible for the vehicle	: normal
6.	Steering	
6.1.	Steering gear and control	
6.1.1.	Type of gear	: n.a.
6.1.2.	Brief description of the electrical and/or electronic components used in the steering system	: n.a.
7.	Braking	
7.1.	Diagram of braking devices	: Refer to drawing No.XT650GK-25
7.2.	Front disc / drum brake ⁽¹⁾ Rear disc / drum brakes ⁽¹⁾	: Front: disk brake Rear: disk brake
7.2.1.	Make(s)	: ChongQing ZhengLing Brake Co., Ltd.
7.2.2.	Type(s)	: Front : ZL650GK Rear : ZL650GK
7.3.	Drawing of parts of the brake system	
7.3.1.	Shoes and/or pads ⁽¹⁾	: Refer to drawing No. XT650GK-26 Refer to drawing No. XT650GK-27
7.3.2.	Linings and/or pads (Indicate make, grade of material or identification mark) ⁽¹⁾	: Refer to drawing No. XT650GK-26 Refer to drawing No. XT650GK-27
7.3.3.	Brake levers and/or pedals ⁽¹⁾	: Foot Brake pedal Refer to drawing No. XT650GK-28
7.3.4.	Hydraulic reservoirs (where applicable)	: Refer to drawing No. XT650GK-29
7.4.	Other devices (where applicable) drawing and description	: Parking brake on the front wheels : Refer to drawing No. XT650GK-25



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

Refer to drawing No. XT650GK-30

- 7.5. Brief description of the electrical and/or electronic components used in the braking system : n.a.

8. Lighting and light-signalling devices

- 8.1. List of all devices (mentioning the number, make(s), model, component type-approval mark(s), the maximum intensity of the main-beam headlamps, colour, the corresponding tell-tale) : List as below

Name	Make	Type	Quantity /color	Tell tale	Approval no.	Max. intensity
Driving lamp Passing lamp	SHIJIN	SJ-D01	2/white		E4-113R-0011171	22500cd
	RONGJIA	RJ-ZD-1000II			E4-113R-0011631	
Front position lamp	SHIJIN	SJ-XJTCHL	2/white	n.a.	E4 50R-0010931	n.a.
	RONGJIA	RJ-ZD-1000II			E4-50R-0011631	
Front/Rear direction indicator / Hazard warning Device	SHIJIN	SJ-XJTTUF	4/ amber		E4 50R-000695	n.a.
	RONGJIA	RJ-ZD-3000/4000/5000/6000			E4 50R-000790	
Rear position lamp Stop lamp	SHIJIN	SJ-XJTTUF	2/red	n.a.	E4 50R-0011172	n.a.
	RONGJIA	RJ-HA-2000	2/red	n.a.	E4 50R-0011154	n.a.
Rear registration plate lamp	SHIJIN	SJ-P01	1/white	n.a.	E4 50R-000774	n.a.
Rear reflector	K-LITE	KM202	2/red	N.A	IA E9 02.1269	n.a.

- 8.2. Diagram showing the location of the lighting and light-signalling devices : Refer to drawing No. XT650GK-31
- 8.3. Hazard warning lamps (where fitted) : Refer to drawing No. XT650GK-31
- 8.4. Additional requirements relating to special vehicles : n.a.
- 8.5. Brief description of the electrical and/or electronic components used in the lighting system and in the light-signalling system : n.a.

9. Equipment

- 9.1. Coupling devices (where applicable)
- 9.1.1. Type (hook/ring/other) ⁽¹⁾ : n.a.
- 9.1.2. Photograph and/or drawings showing the position and the construction of the coupling devices : n.a.



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

- | | | |
|--------|---|---|
| 9.2. | Arrangement and identification of controls, tell-tales and indicators | |
| 9.2.1. | Photographs and/or drawings of the arrangement of the symbols, controls, tell-tales and indicators | : Refer to drawing No.XT650GK-32 |
| 9.3. | Statutory inscriptions | |
| 9.3.1. | Photographs and/or drawings showing the location of the statutory inscriptions and the chassis number | : Refer to drawing No. XT650GK-33 |
| 9.3.2. | Photographs and/or drawings showing the official part of the inscription (with statement of dimensions) | : Refer to drawing No. XT650GK-33 |
| 9.3.3. | Photographs and/or drawings of the chassis number (with statement of dimensions) | : Refer to drawing No. XT650GK-33 |
| 9.4. | Device(s) to protect against unauthorised use | |
| 9.4.1. | Type of device(s) | : Type1 |
| 9.4.2. | Summary description of device(s) used | : Steering lock,
Refer to drawing No. XT650GK-34 |
| 9.5. | Audible warning device(s) | |
| 9.5.1. | Summary description of device(s) used and their purpose | : Electro magnetic actuated diaphragm |
| 9.5.2. | Make(s) | : LI XIANG |
| 9.5.3. | Type(s) | : DL129 |
| 9.5.4. | Type-approval mark | : E4-000045 |
| 9.5.5. | Drawing(s) showing the location of the audible warning device(s) in relation to the structure of the vehicle | : Refer to drawing No. XT650GK-35 |
| 9.5.6. | Details of the method of attachment, including the part of the vehicle structure to which the audible warning device(s) is (are) attached | : Refer to drawing No. XT650GK-35 |
| 9.6. | Location of rear registration plate (indicate variants where necessary; drawings may be used as appropriate) | : Refer to drawing No. XT650GK-36 |
| 9.6.1. | Inclination of plane in relation to the vertical | : 25° facing upward |



C. INFORMATION RELATING SOLELY TO THREE-WHEEL MOPEDS, MOTOR TRICYCLES AND QUADRICYCLES

- 1. Dimensions and masses (in mm and kg) (where necessary, refer to drawings)**
- 1.1. Dimensions to be complied with when building unbodyed chassis
- 1.1.1. Length : 2710
- 1.1.2. Width : 1640
- 1.1.3. Unladen height : 1480
- 1.1.4. Front overhang : 400mm
- 1.1.5. Rear overhang : 350mm
- 1.1.6. Limit position for centre of gravity of bodied vehicle : n.a.
- 1.2. Masses (d)
- 1.2.1. Maximum payload declared by manufacturer : 75kg
- 2. Equipment**
- 2.1. Bodywork : n.a.
- 2.2. Windscreen and other glazing
- 2.3. Windscreen wiper(s) : n.a.
- 2.3.1. Detailed technical description (with photographs or drawings): : n.a.
- 2.4. Windscreen washer(s) : n.a.
- 2.4.1. Detailed technical description (with photographs or drawings): : n.a.
- 2.5. Defrosting and demisting : n.a.
- 2.5.1. Detailed technical description (with photographs or drawings): :
- 2.6. Rear-view mirror(s) (please give the following information for each rear-view mirror)
- 2.6.1. Make: : 1. YONGZHAO
2. K SOURCE
- 2.6.2. Type-approval mark: : 1. L- E4- 000085
2. L-E4-004002
- 2.6.3. Variant:
- 2.6.4. Drawing(s) showing the location of the rear-view mirror(s) in relation to the structure of the vehicle: : Refer to drawing No.XT650GK-37
- 2.6.5. Detailed information on the method of attachment, including that part of the structure of the vehicle to which the rear-view mirror is attached: : Refer to drawing No.XT650GK-38



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

- 2.7. Seats
- 2.7.1. Number: : 2
- 2.7.2. Location: : One in right and one in left
- 2.7.3. Coordinates or drawing of the R point (j)
- 2.7.3.1. Driving seat: : Version 1: L, X:720 Y: 290 Z:300
Version 2: R, X:720 Y: 290 Z:300
- 2.7.3.2. Other seats: : Version 1:R,X:720 Y: 290 Z:300
Version 2: L, X:720 Y: 290 Z:300
- 2.7.4. Intended seat-back inclination
- 2.7.4.1. Driving seat: : n.a.
- 2.7.4.2. Other seats: : n.a.
- 2.7.5. Seat adjustment range, where appropriate
- 2.7.5.1. Driving seat: : n.a.
- 2.7.5.2. Other seats: : n.a.
- 2.8. Passenger-compartment heating system : n.a.
(where applicable)
- 2.9 Safety belts
- Number and location of safety belts, : list as below
together with a reference to the seats
where that type of equipment may be
installed

		Complete type-approval mark	Variant
Front seats	D	E4-16R-0436213	n.a.
	P	E4-16R-0436213	n.a.
Rear seats	D	n.a.	n.a.
	P	n.a.	n.a.
Special devices	D	n.a.	n.a.
	P	n.a.	n.a.

D = drivers's side.

P = front passenger side.

- 2.10 Anchorages
- 2.10.1 Number and location of the anchorages : 2; 1 driver seat and 1 passenger seat
- 2.10.2 Photographs and/or drawings of the : Refer to drawing No: XT650GK-40
bodywork showing the true, effective
location and dimensions of the
anchorages, together with an indication of
the R-point position
- 2.10.3 Drawings of the anchorages and the parts : Refer to drawing No: XT650GK-40
of the structure of the vehicle to which
they are attached (together with a
statement of the nature of the materials
used)
- 2.10.4 Designation of the types of belts (*) : list at below
authorised for attachment to the



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

First application
Issue Date: October 18, 2006

anchorages on the vehicle

Seat	Anchorage position	Anchorages location	
		vehicle structure	seat structure
Front seats	lower outboard anchorages	S*	---
	lower inboard anchorages	S	---
	Upper anchorages	S	---
Rear seats	lower outboard anchorages	---	---
	lower inboard anchorages	---	---
	Upper anchorages	---	---

S* : type safety belt(harness belt)

- 2.10.5 Description of a specific type of belt, one anchorage of which is attached to the seat back-rest or incorporates an energy-dissipation device : Fixed to the structure, and no energy-dissipation device incorporated



Outang town, Wuxi city, 214153, Jiangsu province,
P.R. China

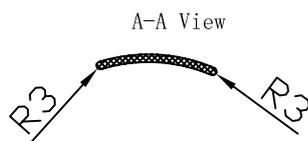
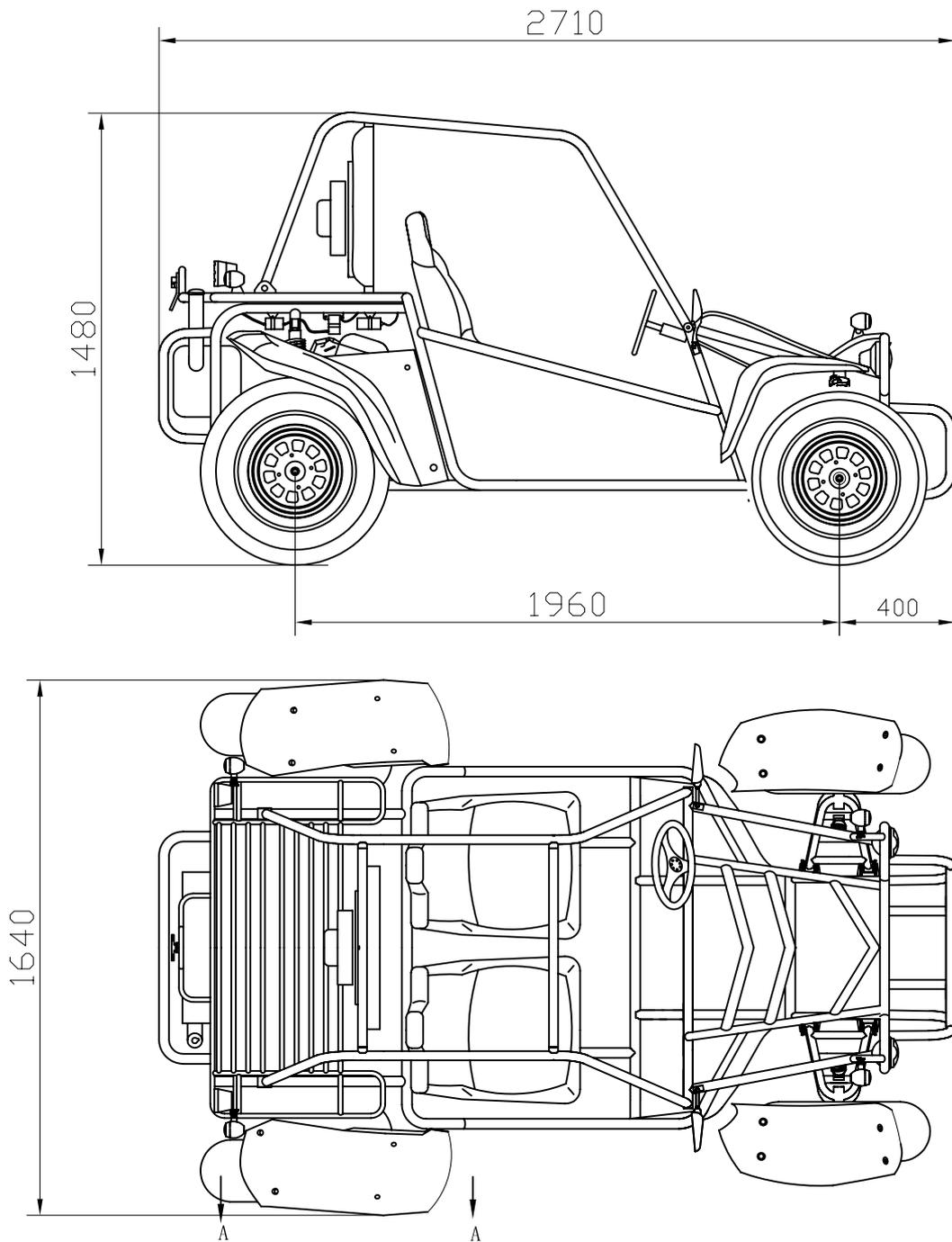
First application
Issue Date: October 18, 2006

PART 2 DECARATE DIRECTIVE APPROVAL NUMBERS

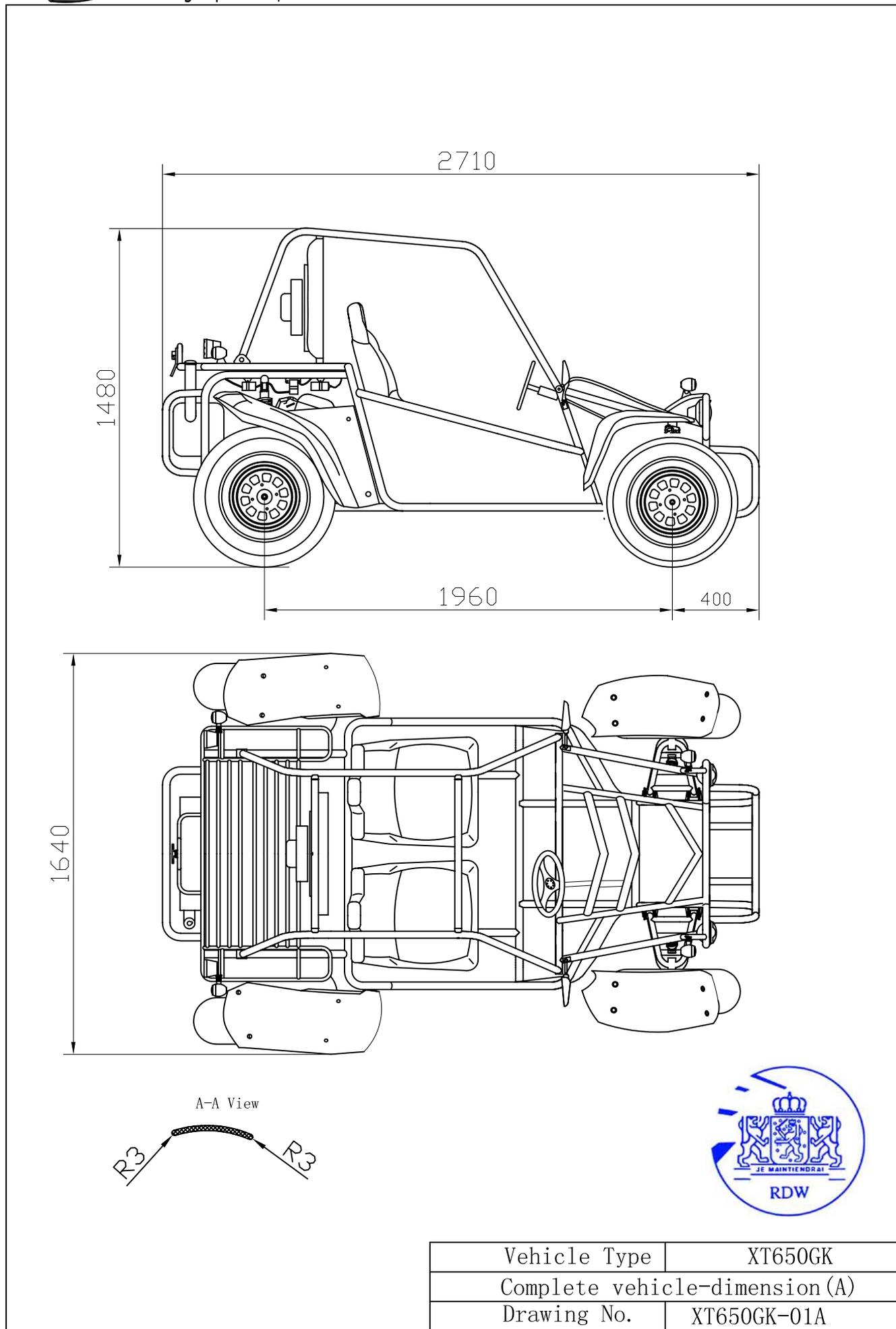
The following information shall be supplied on the vehicle to be type approved with regard to existing system, Decarate technical unit or component approvals ^(*):

Heading No	Decarate Directive No	Subject	Approval No ⁽¹⁾	Extension date	Variants and versions covered
18	95/1/EC	Maximum torque and maximum net power of engine	N.A.	--	
19	97/24/EC (C7)	Anti-tampering measures for mopeds and motorcycles	N.A.	--	
20	97/24/EC (C6)	Fuel tank	N.A.	--	
25	95/1/EC	Maximum design speed of vehicle	N.A.	--	
26	93/93/EEC	Masses and dimensions	N.A.	--	
27	97/24/EC (C10)	Trailer coupling devices	N.A.	--	
28	97/24/EC (C5)	Anti-air pollution measures	N.A.	--	
29	97/24/EC (C1)	Tyres	Acc to ECE R75 refer to information part 1	--	
31	93/14/EEC	Braking system	N.A.	--	
32	93/92/EEC	Installation of lighting and light-signalling devices on the vehicle	N.A.	--	
33	97/24/EC (C2)	Lighting and light-signalling devices	Refer to Information part I	--	
34	93/30/EEC	Audible warning device	Refer to Information part I	--	
35	93/94/EC	Position for the mounting of rear registration plate	N.A.	--	
36	97/24/EC (C8)	Electromagnetic compatibility	N.A.	--	
37	97/24/EC (C9)	Sound level and exhaust system	N.A.	--	
38	97/24/EC (C4)	Rear-view mirror(s)	Refer to Information part I	--	
39	97/24/EC (C3)	External projections	N.A.	--	
40	93/31/EEC	Stand (except in the case of vehicles having three or more wheels)	N.A.	--	
41	93/33/EEC	Devices to prevent unauthorised use of the vehicle	N.A.	--	
42	97/24/EC (12)	Windows; windscreen wipers; windscreen washers; and so on	N.A.	--	
43	93/32/EEC	Passenger hand-hold for two-wheel vehicles	N.A.	--	
44	97/24/EEC (C11)	Anchorage points for safety belts and safety belts	Refer to Information part I	--	
45	2000/7/EC	Speedometer	N.A.	--	
46	93/29/EEC	Identification of controls, tell-tales and indicators	N.A.	--	
47	93/34/EEC	Statutory inscriptions	N.A.	--	

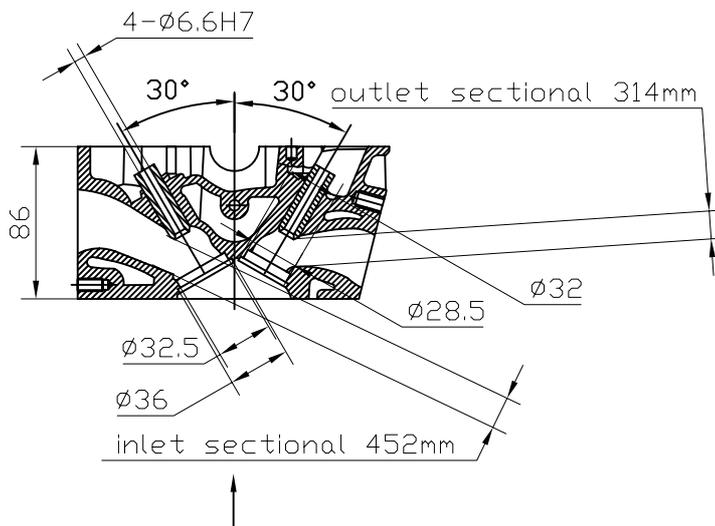
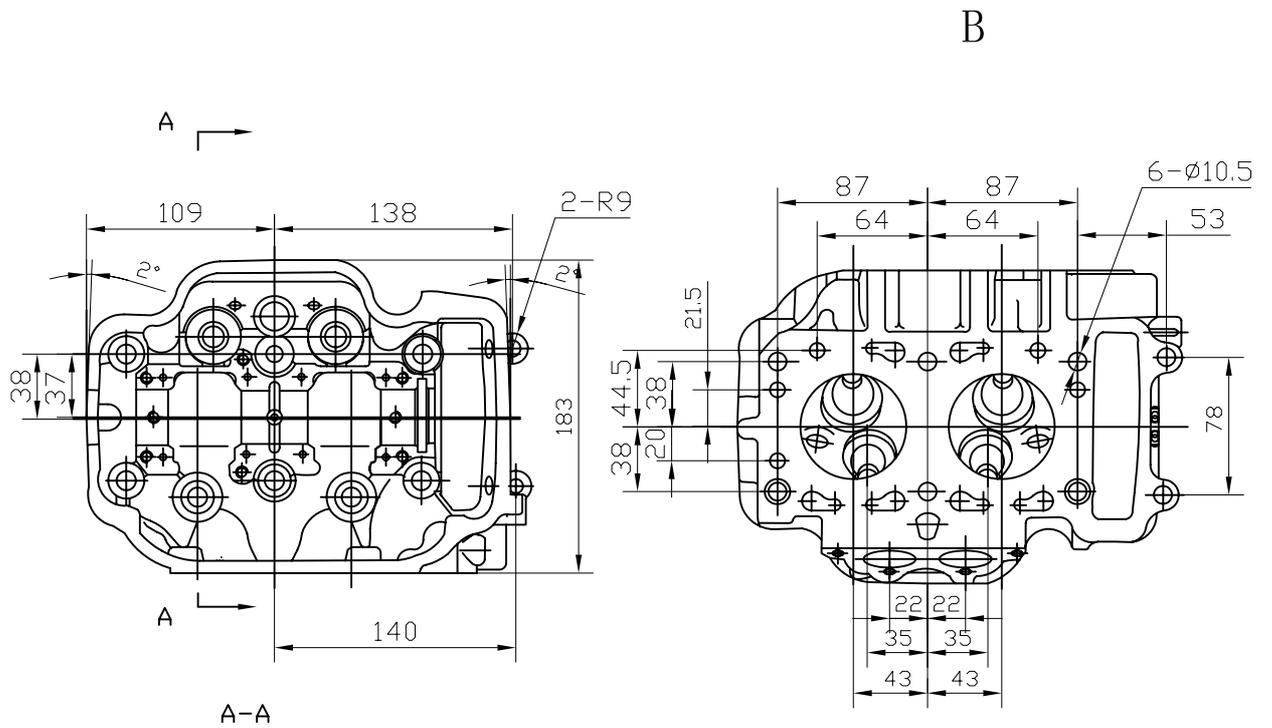




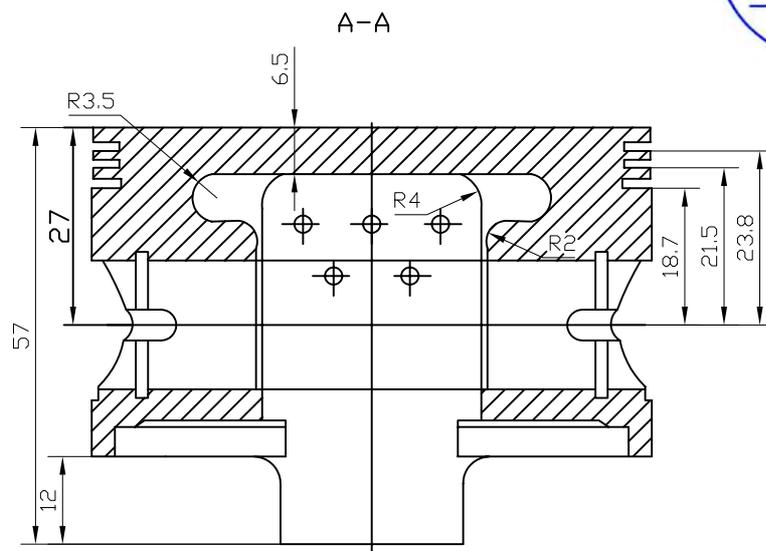
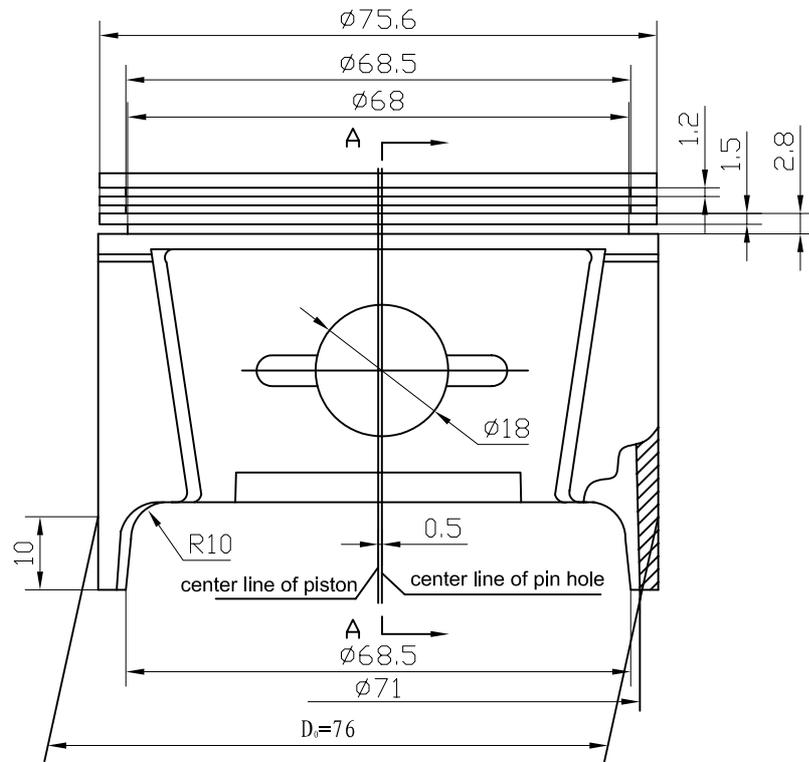
Vehicle Type	XT650GK
Complete vehicle-dimension	
Drawing No.	XT650GK-01



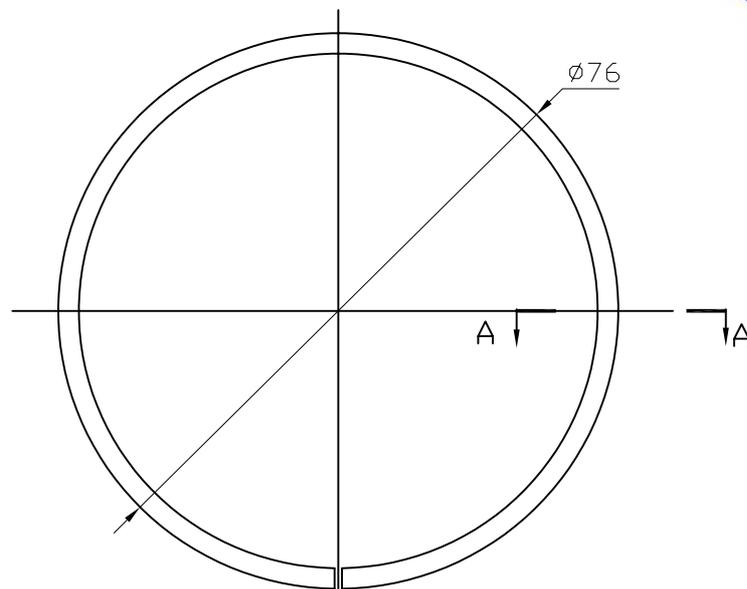
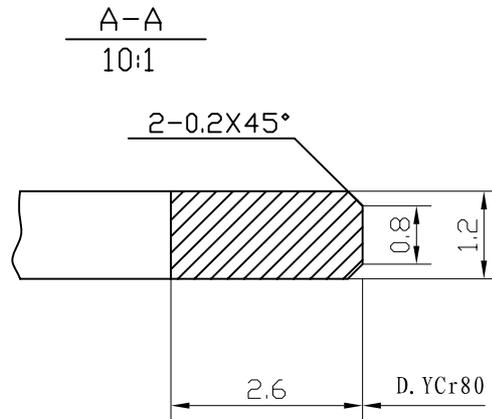
Vehicle Type	XT650GK
Complete vehicle-dimension (A)	
Drawing No.	XT650GK-01A



Vehicle Type	XT650GK
Cylinder Head	
Drawing No.	XT650GK-02

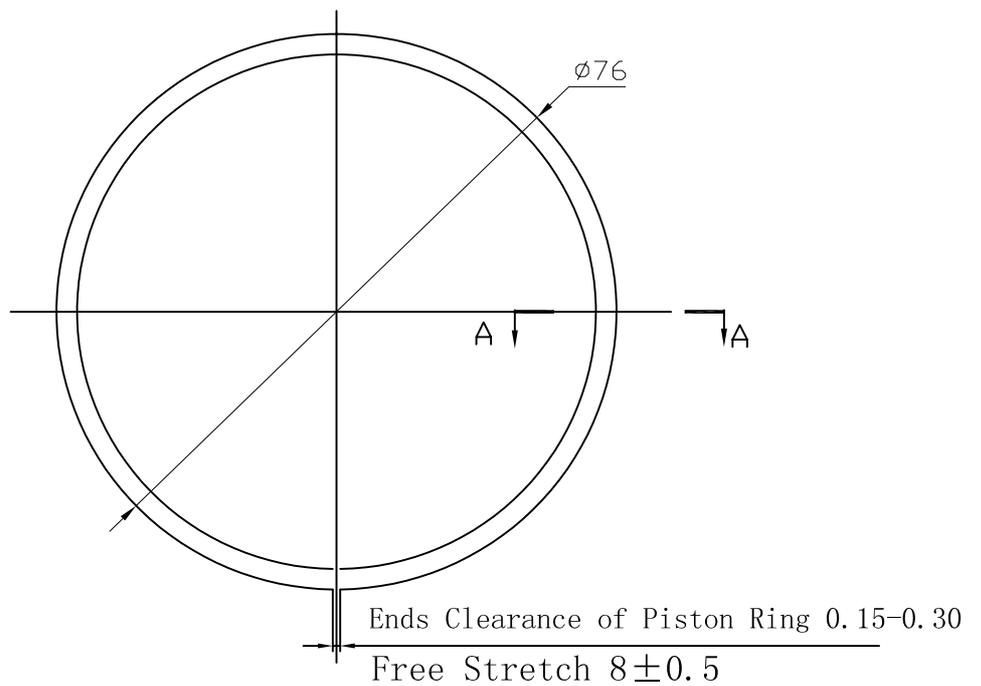
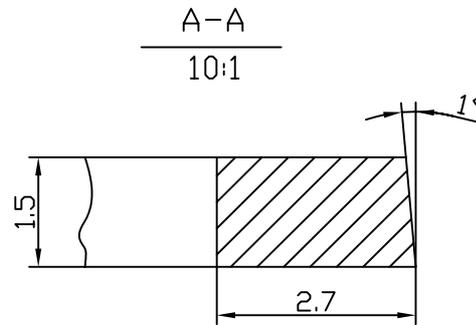


Vehicle Type	XT650GK
Piston	
Drawing No.	XT650GK-03



Ends Clearance of Piston Ring 0.1-0.3
Free Stretch 8 ± 0.5

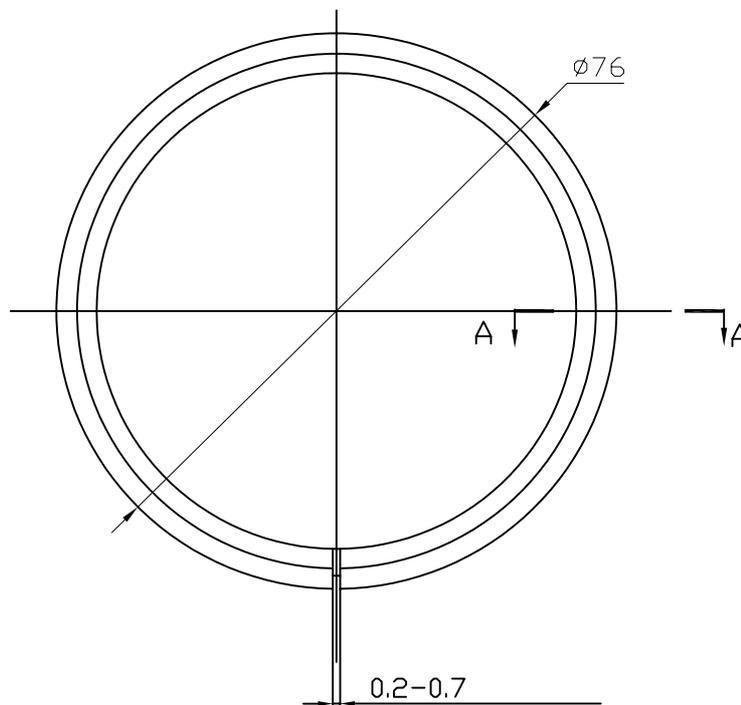
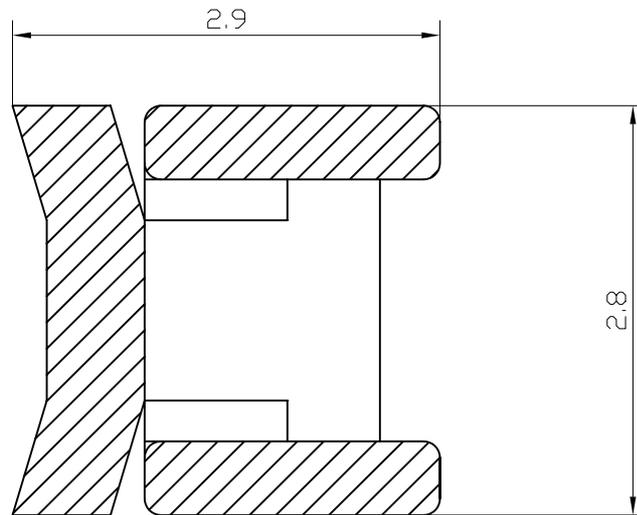
Vehicle Type	XT650GK-2
The First Piston Ring	
Drawing No.	XT650GK-2-04



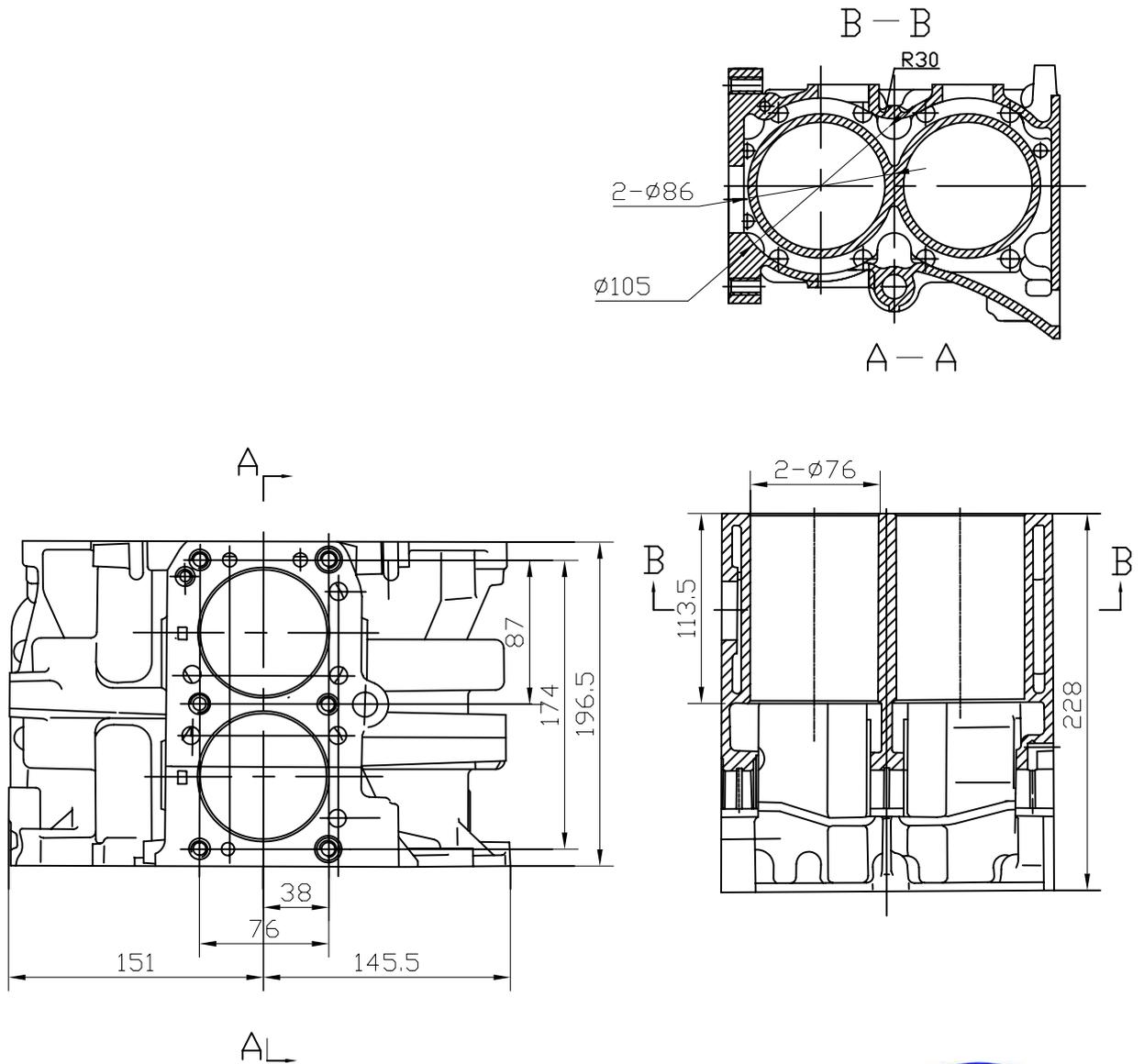
Vehicle Type	XT650GK
The Second Piston Ring	
Drawing No.	XT650GK-05



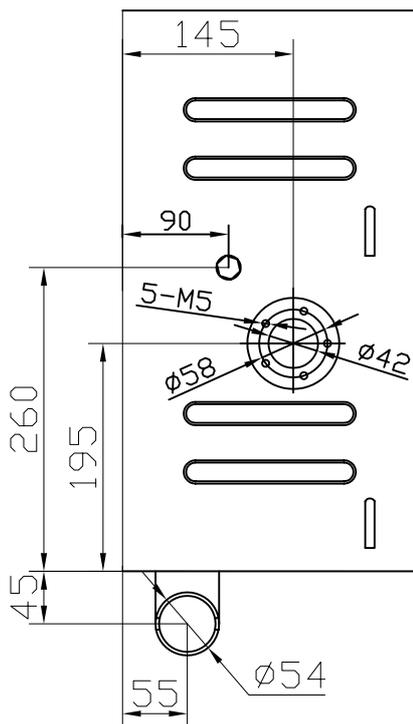
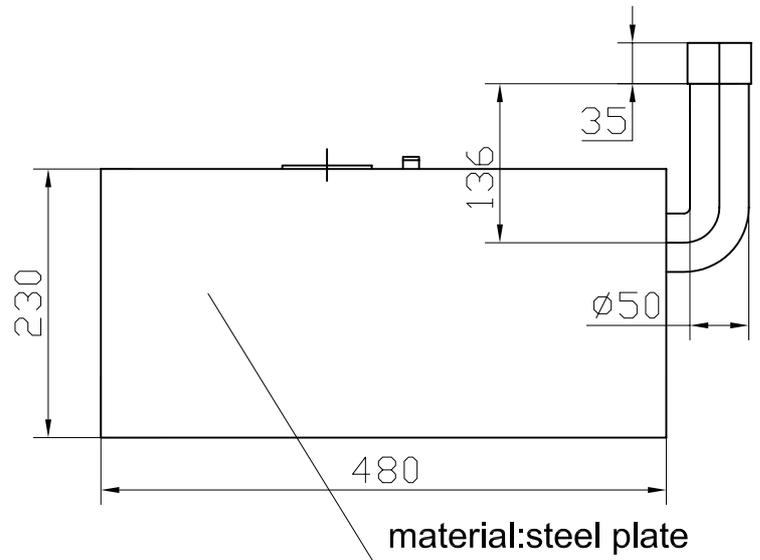
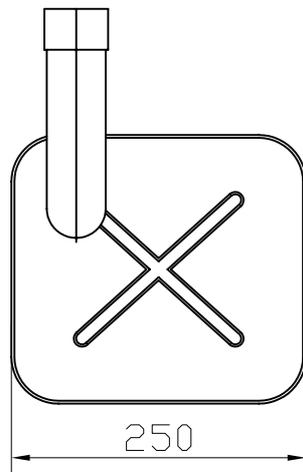
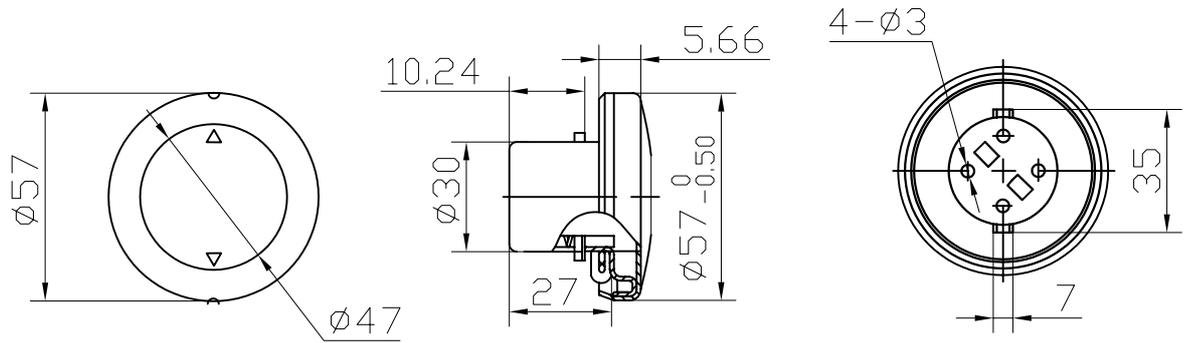
A-A
20:1



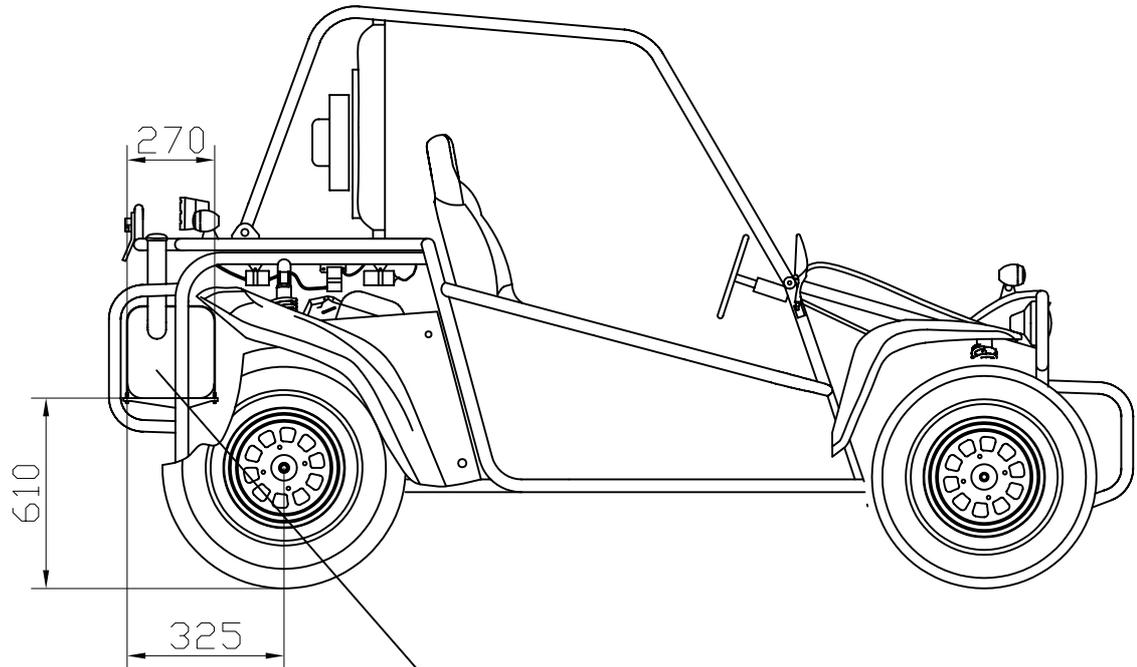
Vehicle Type	XT650GK
The Third Piston Ring	
Drawing No.	XT650GK-06



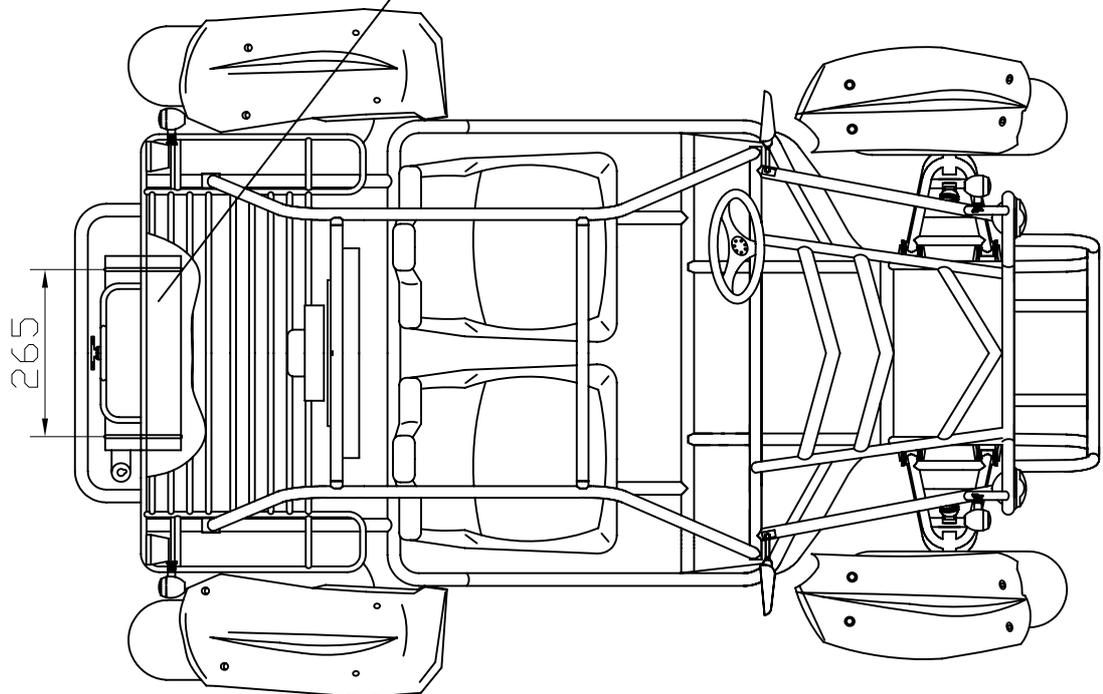
Vehicle Type	XT650GK
Cylinder	
Drawing No.	XT650GK-07



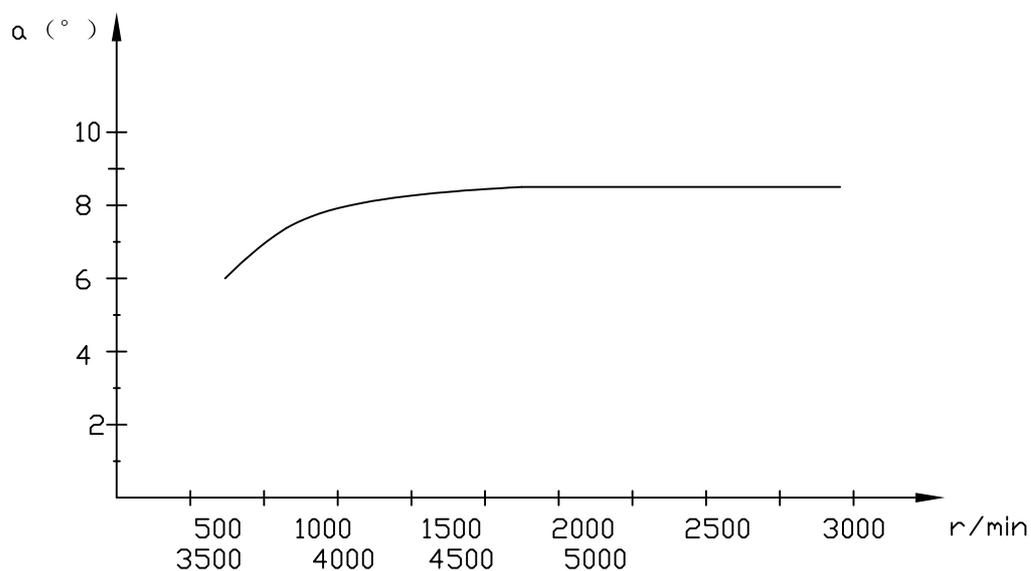
Vehicle Type	XT650GK
Fuel Tank	
Drawing No.	XT650GK-08



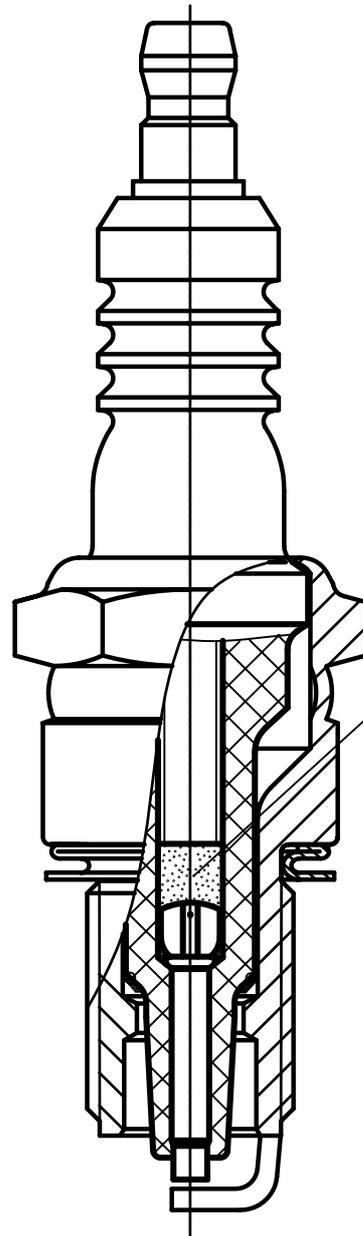
FUELTANK



Vehicle Type	XT650GK
Fuel Tank Installation	
Drawing No.	XT650GK-09



Vehicle Type	XT650GK
Ignition Advance Curve	
Drawing No.	XT650GK-10



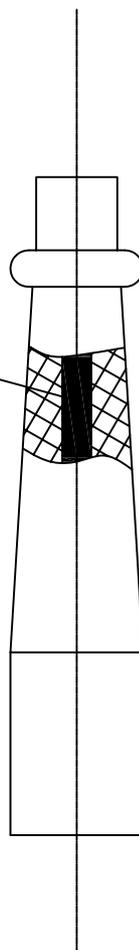
Resistance: $5 \pm 0.5 K\Omega$



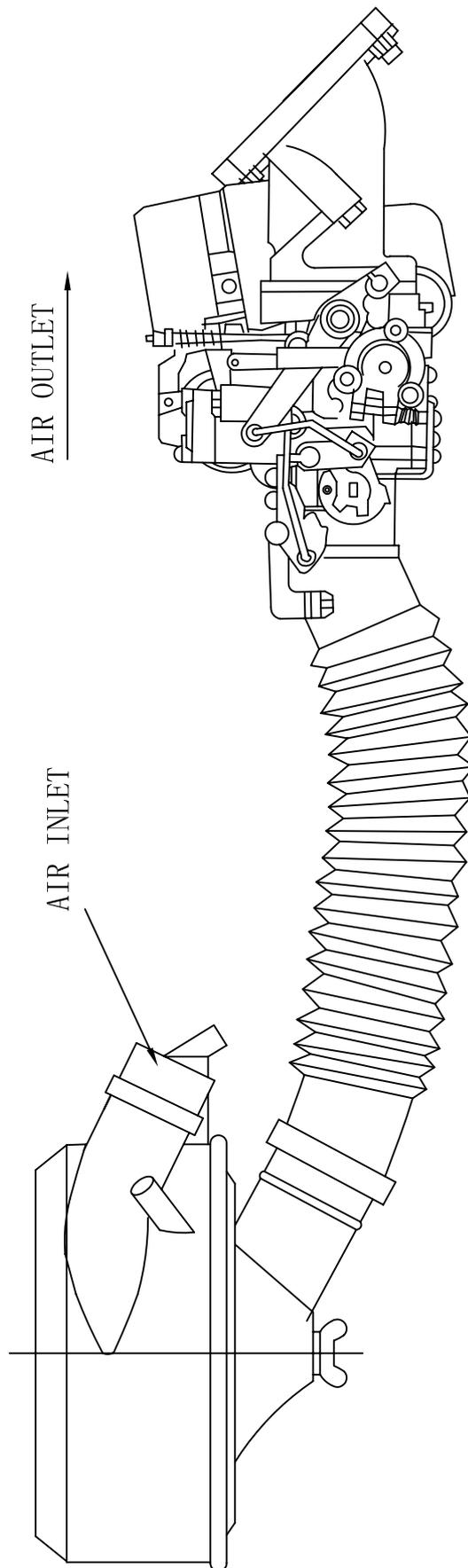
Vehicle Type	XT650GK
Anti radiation-Spark Plug	
Drawing No.	XT650GK-11



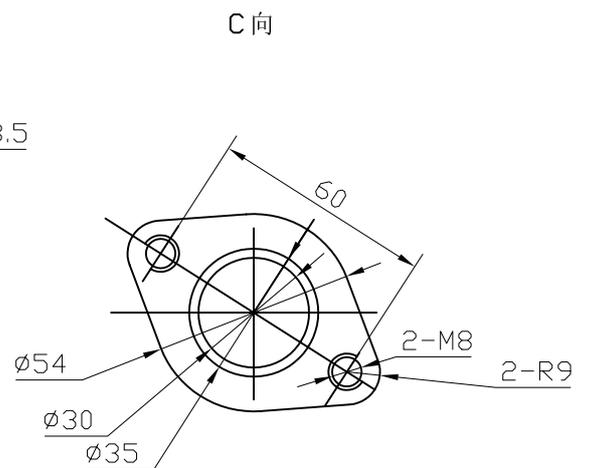
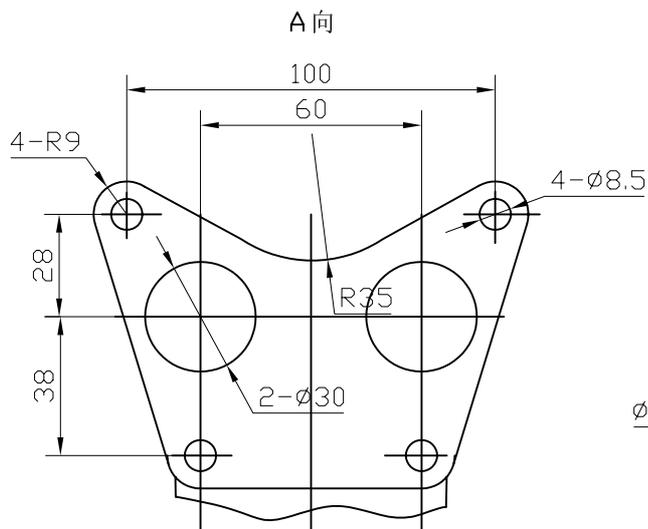
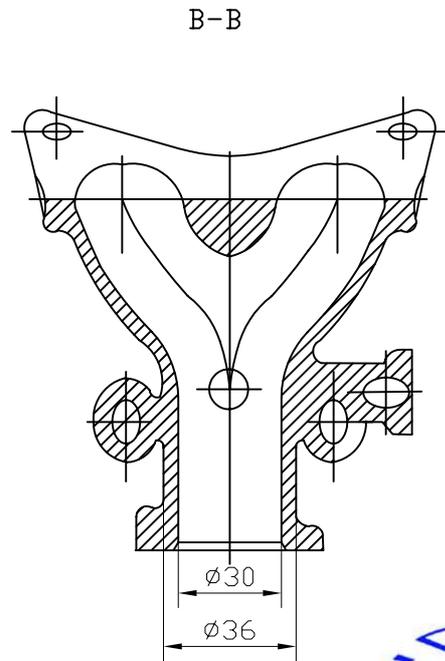
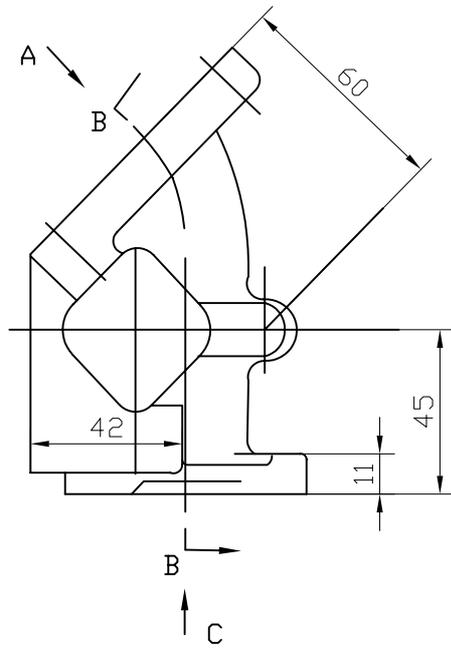
Resistance $5 \pm 0.5K \Omega$



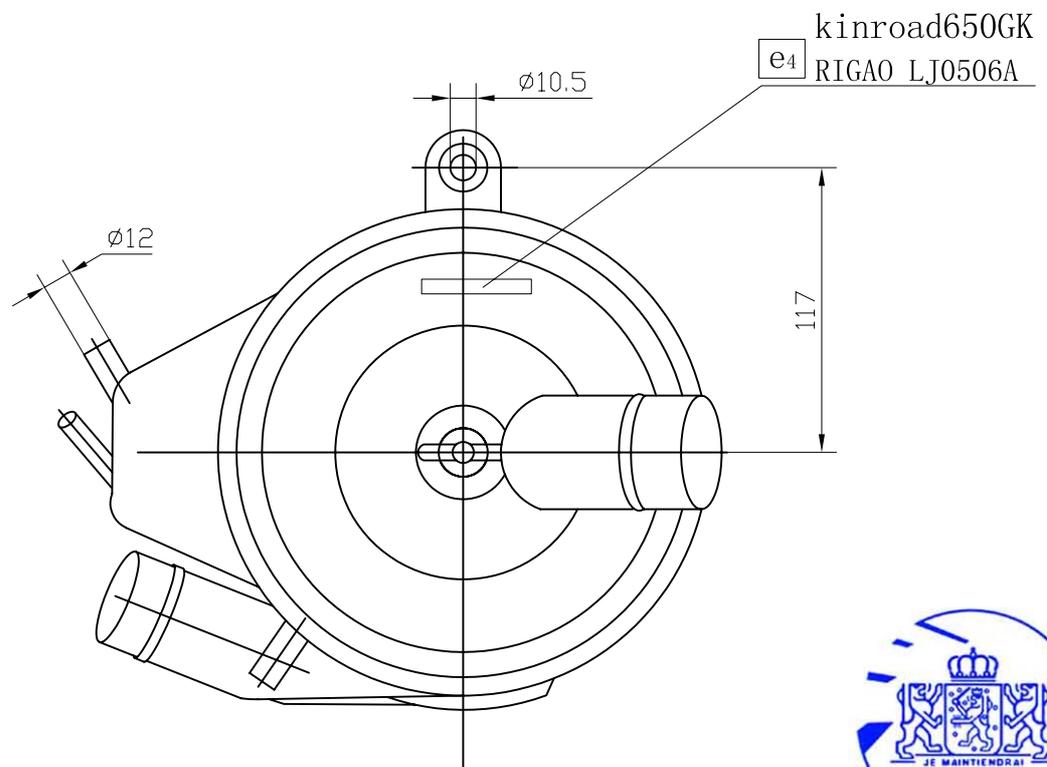
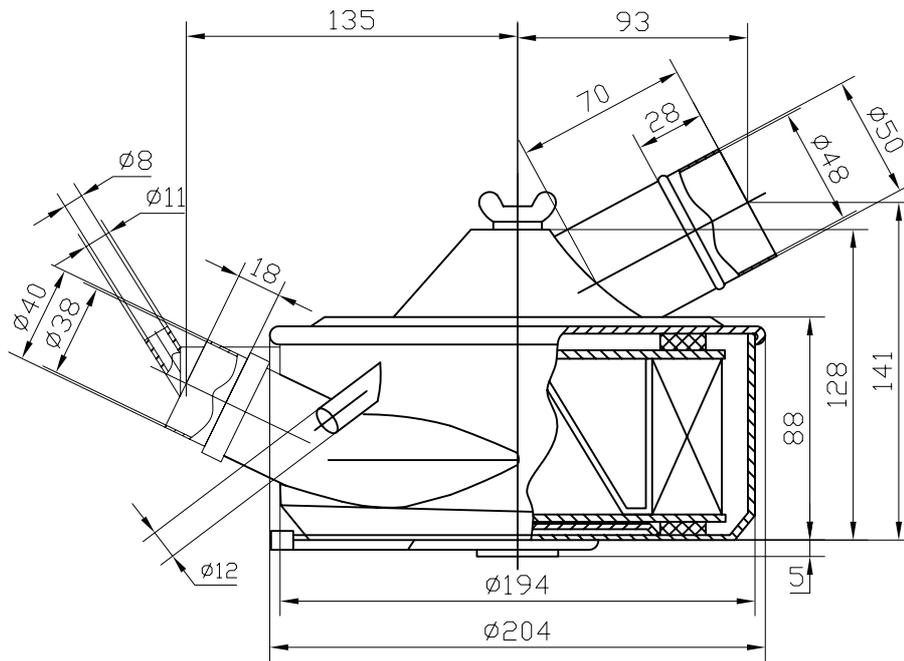
Vehicle Type	XT650GK
Anti-Radiation-High Voltage Cap	
Drawing No.	XT650GK-12



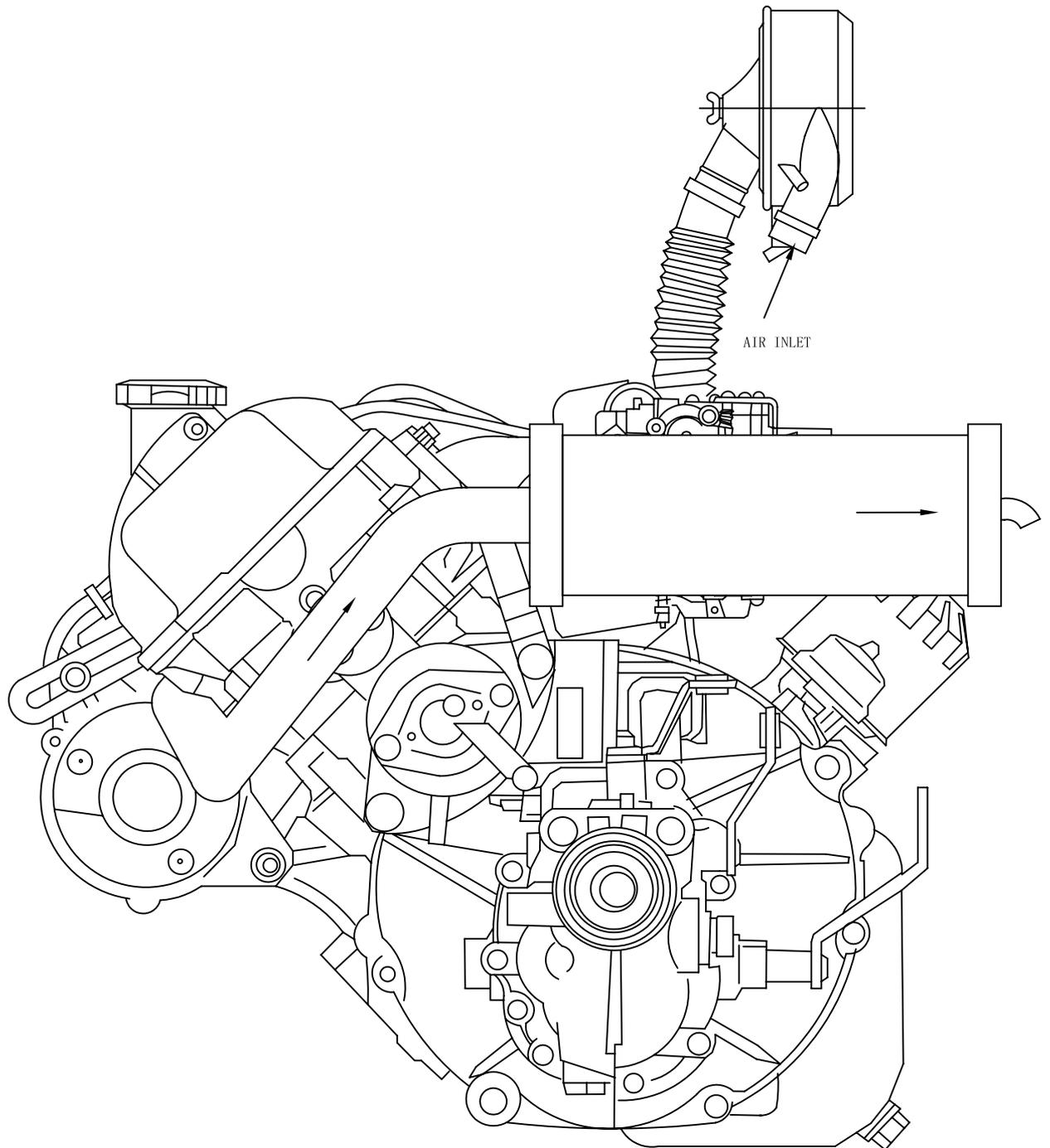
Vehicle Type	XT650GK
Induction System	
Drawing No.	XT650GK-13



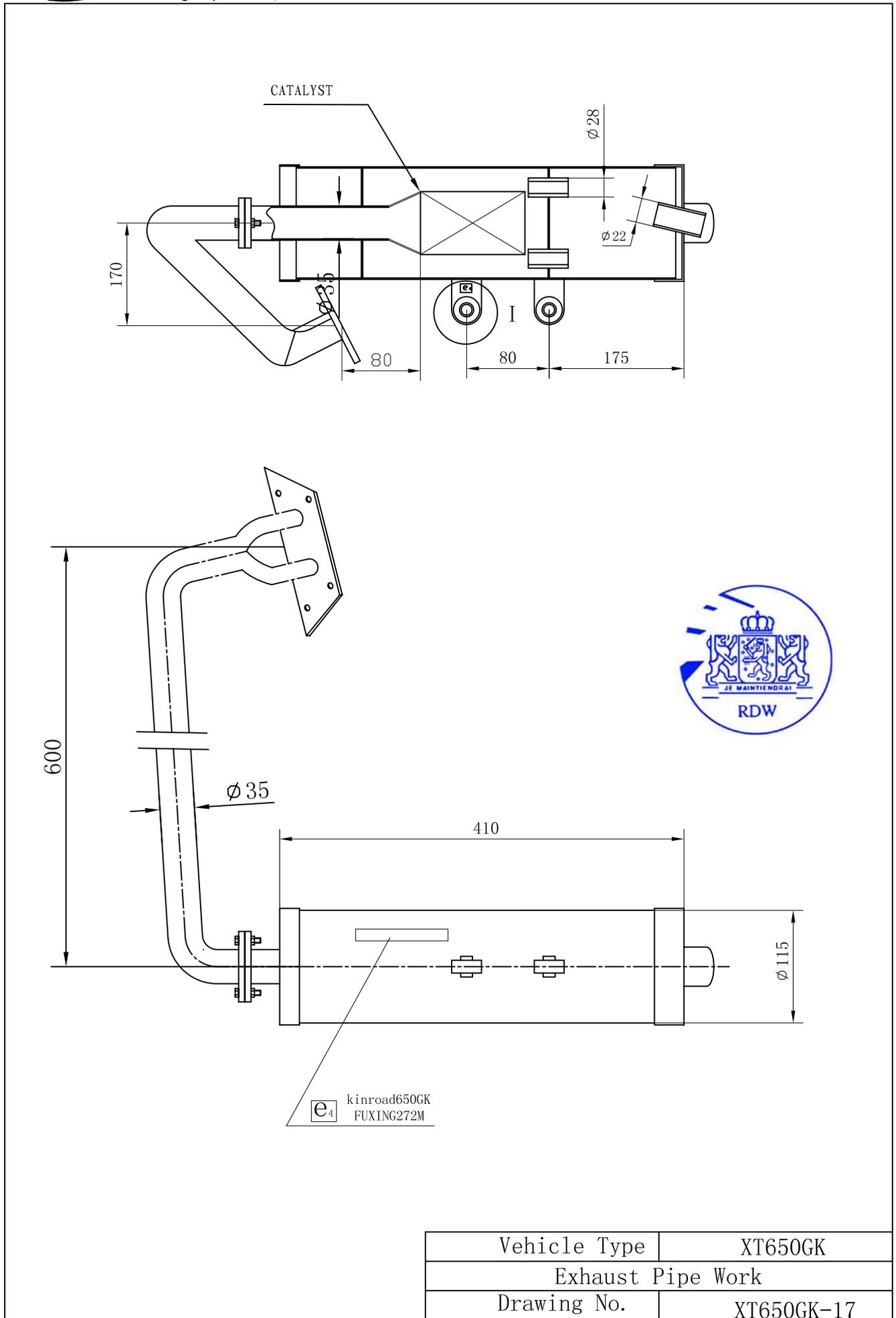
Vehicle Type	XT650GK
Induction Manifold	
Drawing No.	XT650GK-14



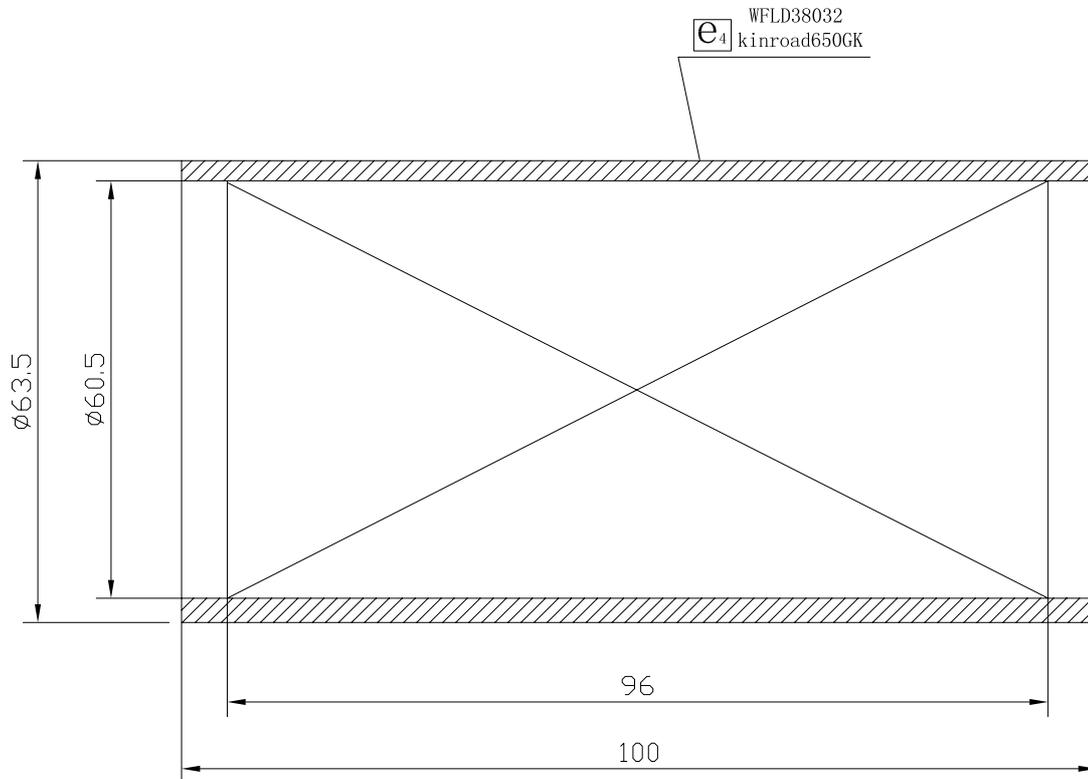
Vehicle Type	XT650GK
Air Filter	
Drawing No.	XT650GK-15



Vehicle Type	XT650GK
Complete Exhaust System	
Drawing No.	XT650GK-16



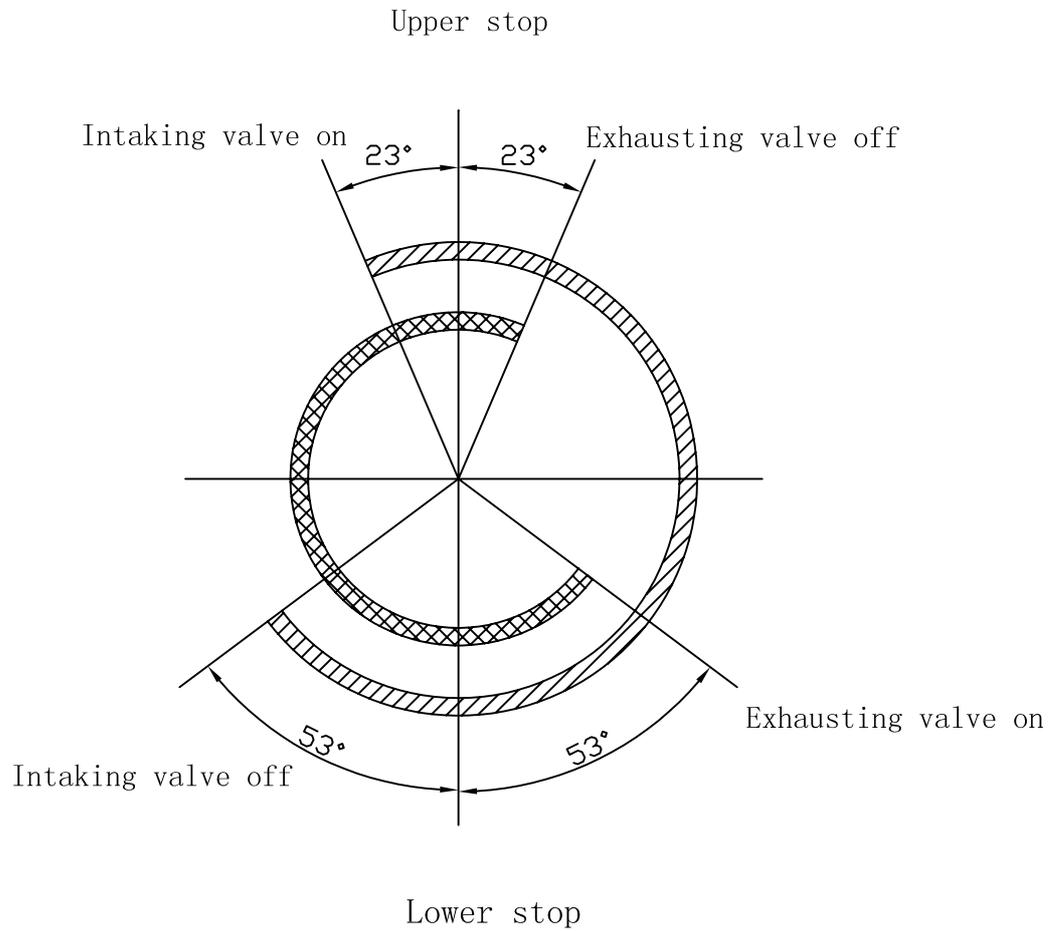
Vehicle Type	XT650GK
Exhaust Pipe Work	
Drawing No.	XT650GK-17



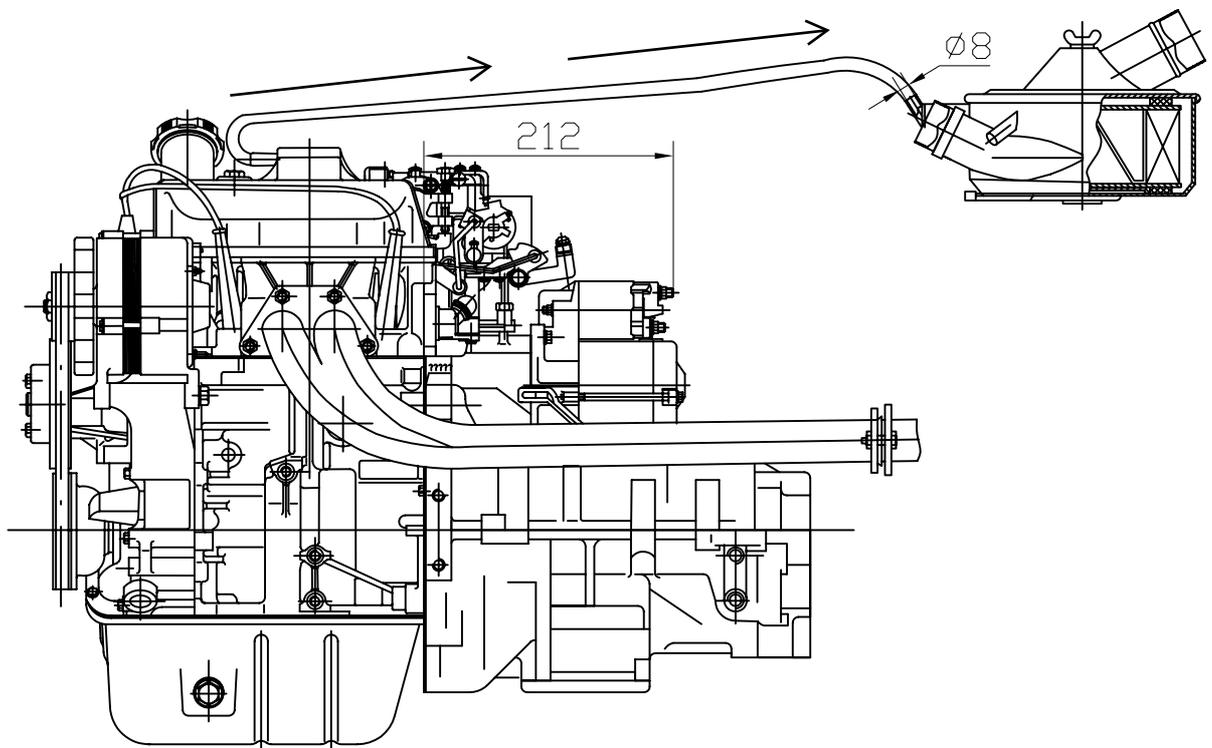
5	NM RATIO	Pt/Rh=5/1
4	PART NO.	WFLD38032
3	VOLUME	275.5CM ³
2	MATRIX DIMENSIONS	Ø63.5mmX100mm 400cpsi
1	MONOLITH	(reecat Technology)



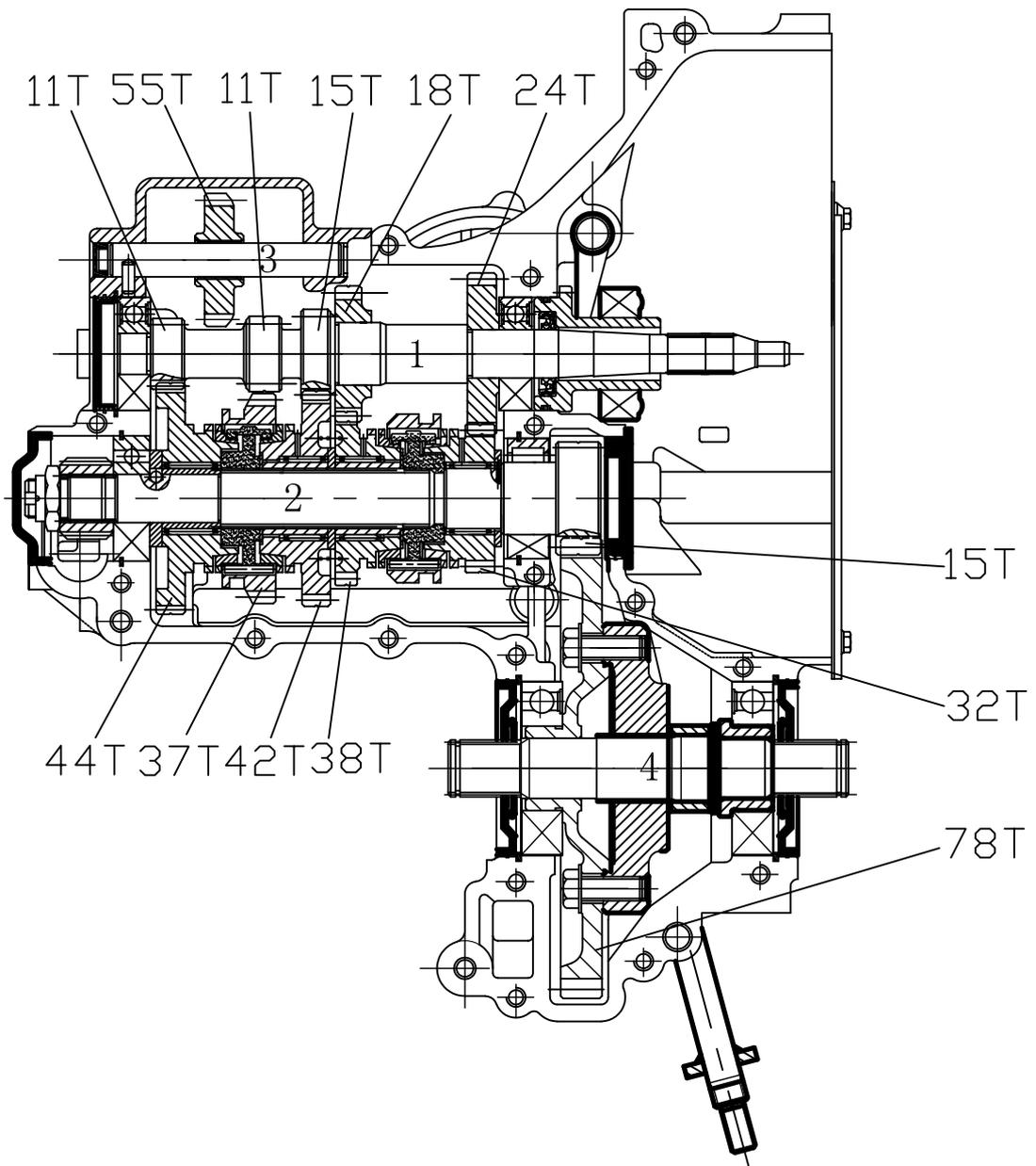
Vehicle Type	XT650GK
CATALYST	
Drawing No.	XT650GK-18



Vehicle Type	XT650GK
Engine Cycles	
Drawing No.	XT650GK-19



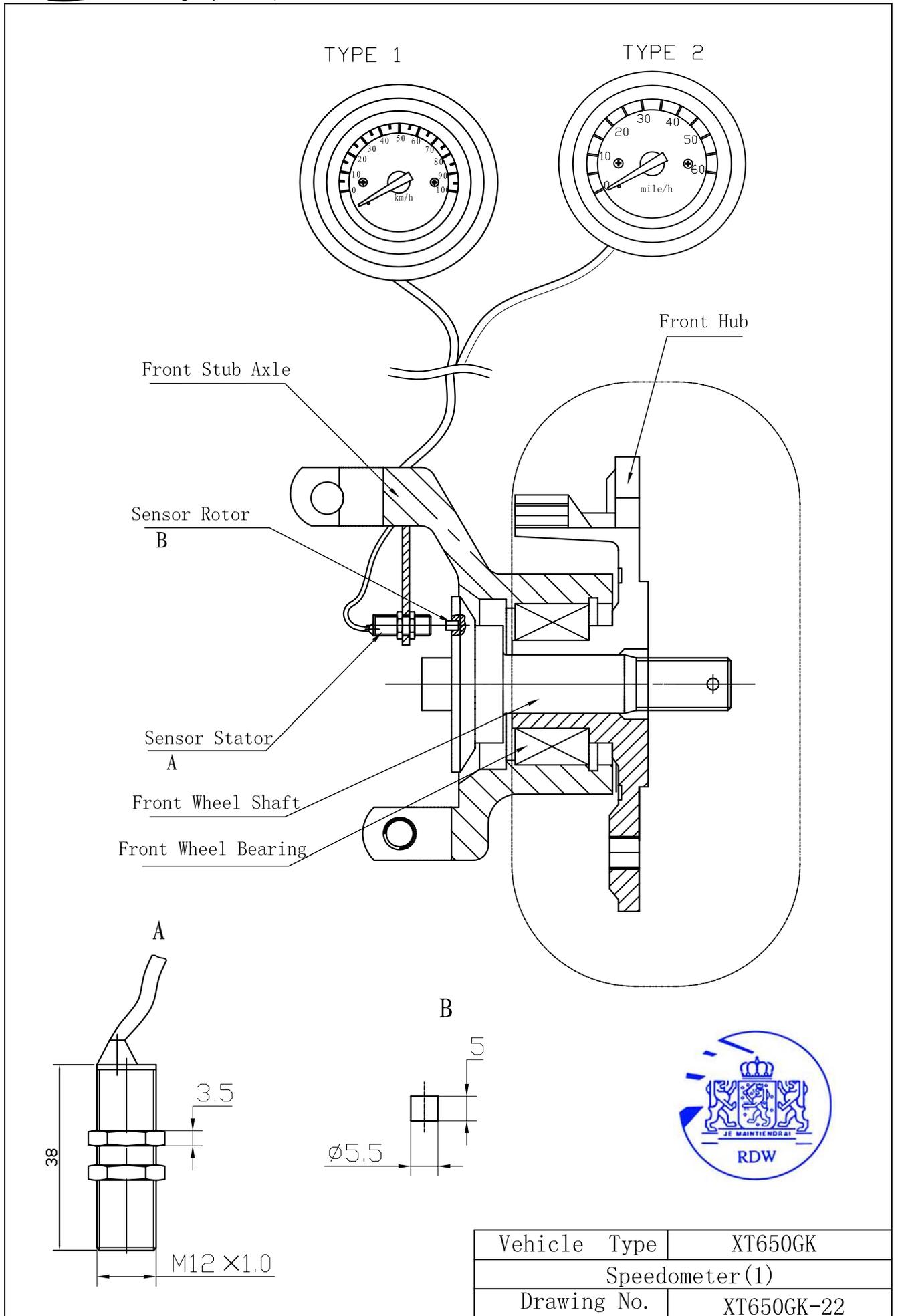
Vehicle Type	XT650GK
Crankcase-gas Recycling Device	
Drawing No.	XT650GK-20



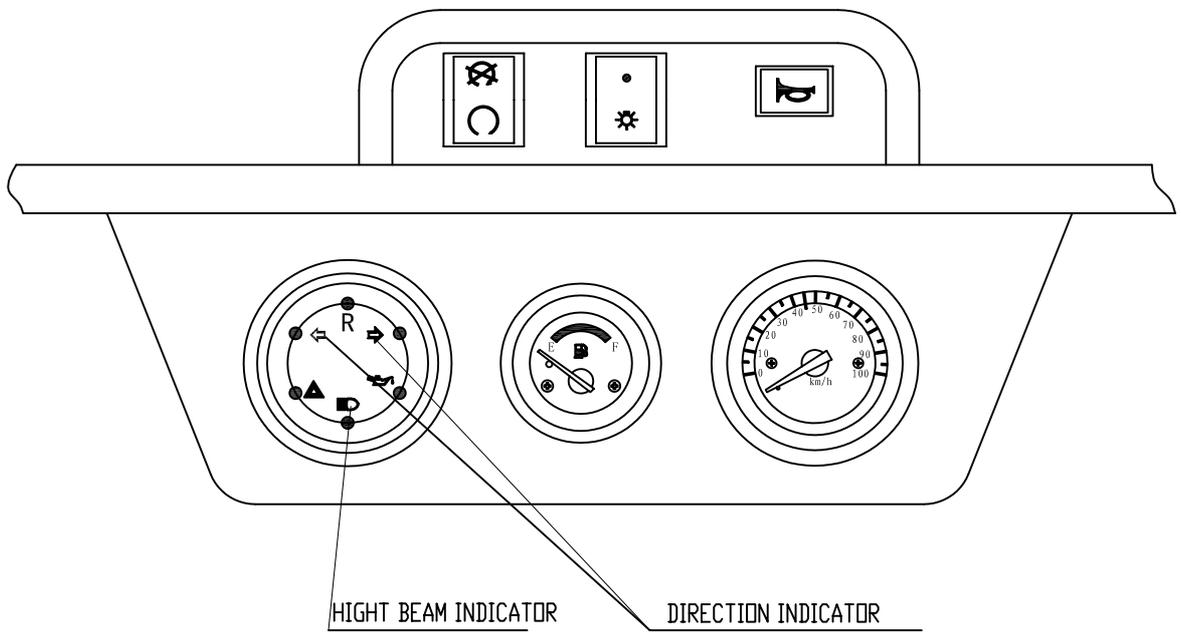
- 1-The first shaft assembly
- 2-Countershaft
- 3-Rreverse gear shaft
- 4-Half axle of Differential



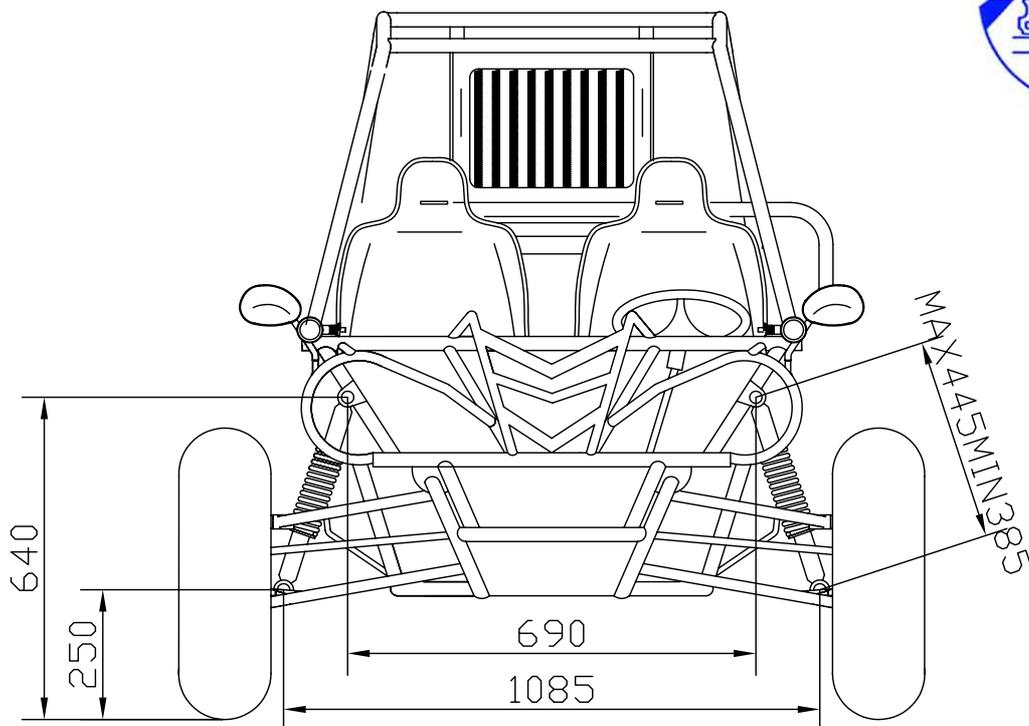
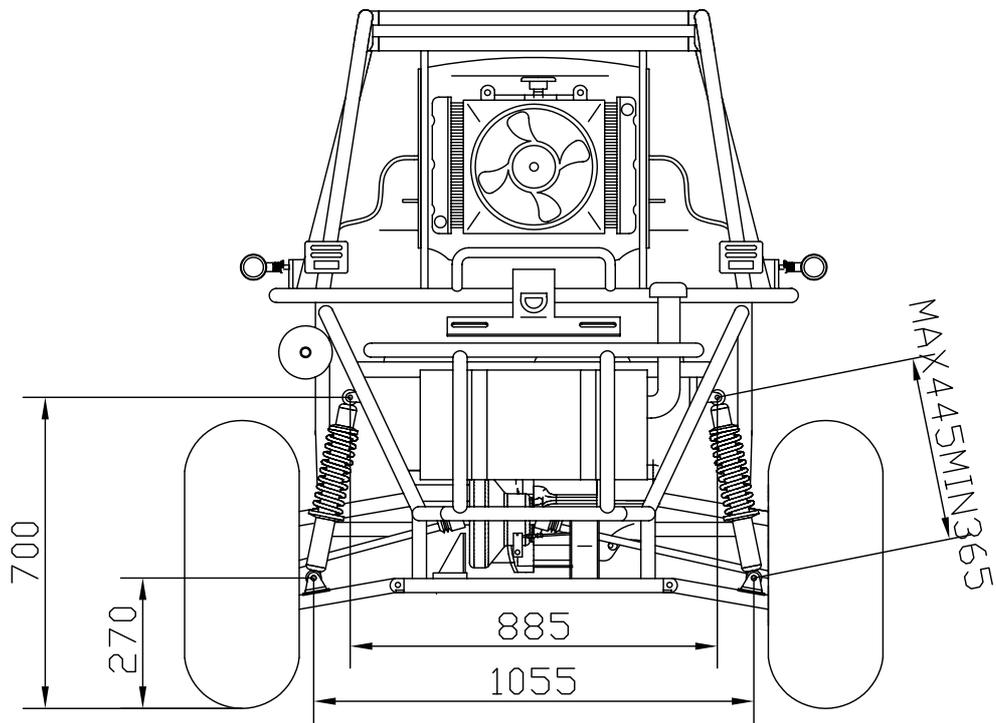
Vehicle Type	XT650GK
Transmission Diagram	
Drawing No.	XT650GK-21



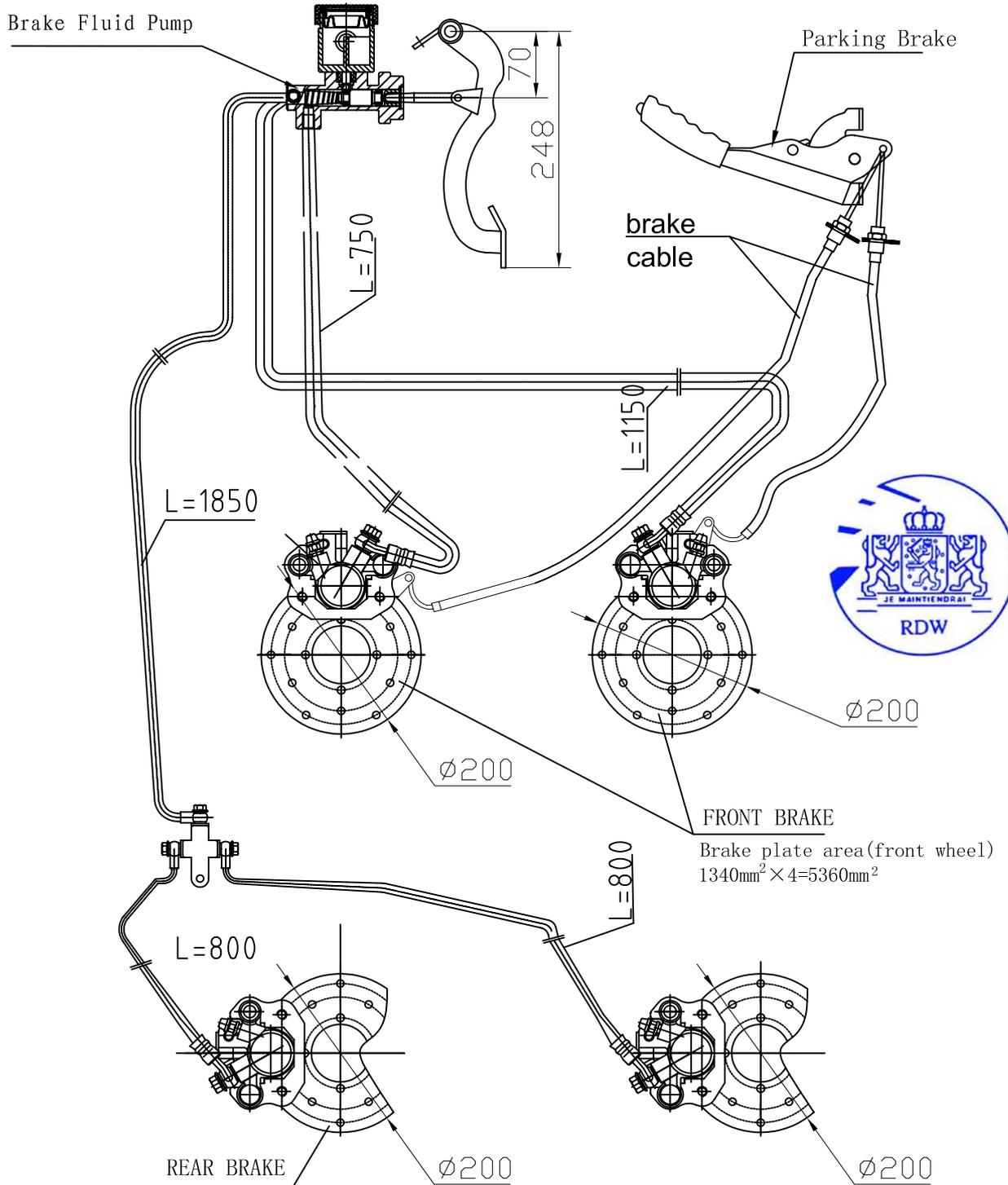
Vehicle Type	XT650GK
Speedometer (1)	
Drawing No.	XT650GK-22



Vehicle Type	XT650GK
Speedometer (2)	
Drawing No.	XT650GK-23



Vehicle Type	XT650GK
Front/Rear Suspension	
Drawing No.	XT650GK-24



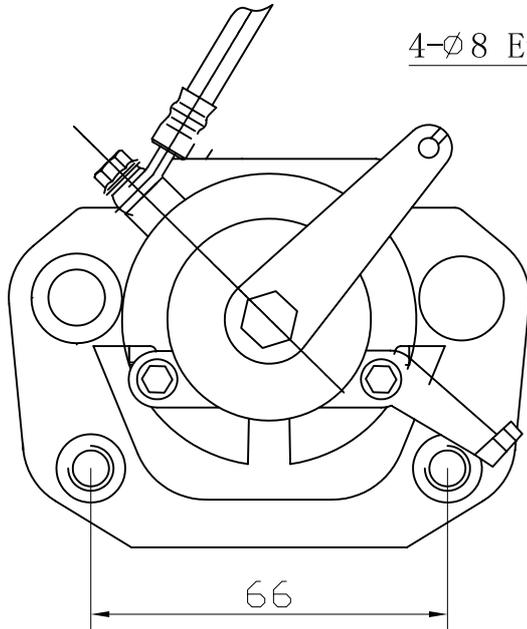
Brake plate area
(rear wheel)
 $1340\text{mm}^2 \times 4 = 5360\text{mm}^2$

Vehicle Type	XT650GK
Brake system	
Drawing No.	XT650GK-25

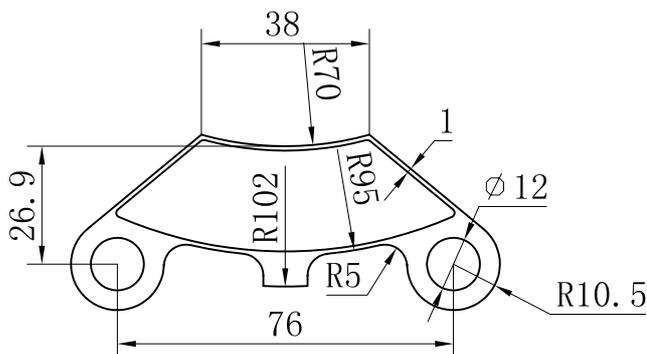
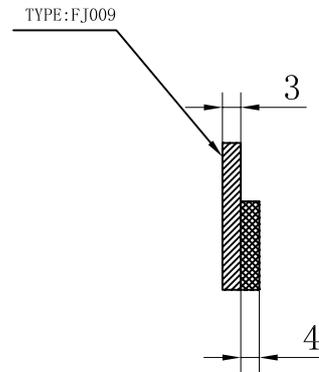
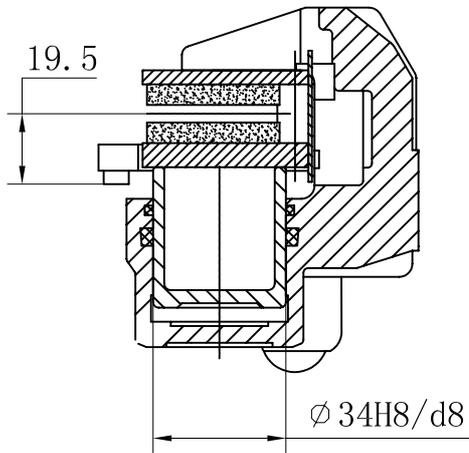
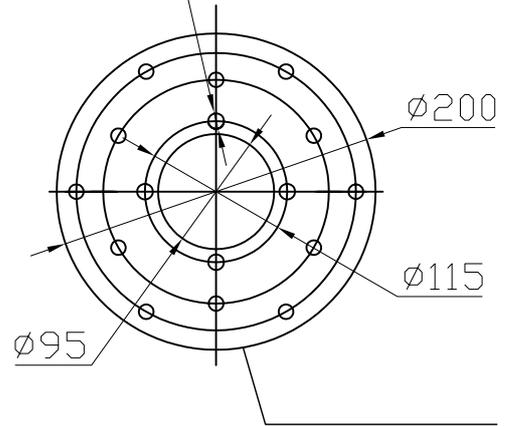


Front Brake caliper Assembly

Front Disc brake Plate



4- ϕ 8 Even distributed



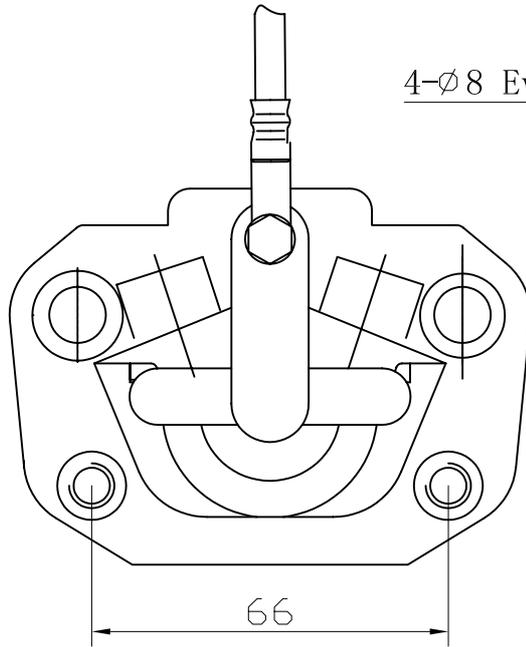
Maker: ChongQing ZhengLing Brake Co., Ltd.

Vehicle Type	XT650GK
	Front brake
Drawing No.	XT650GK-26

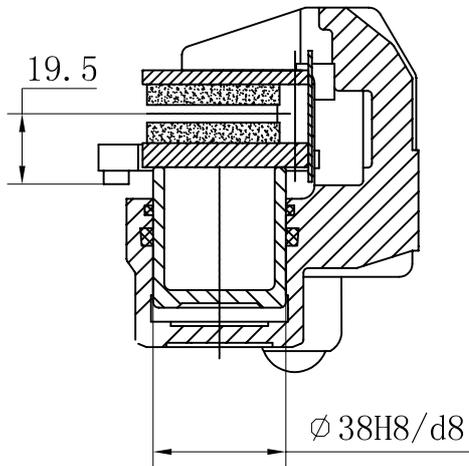
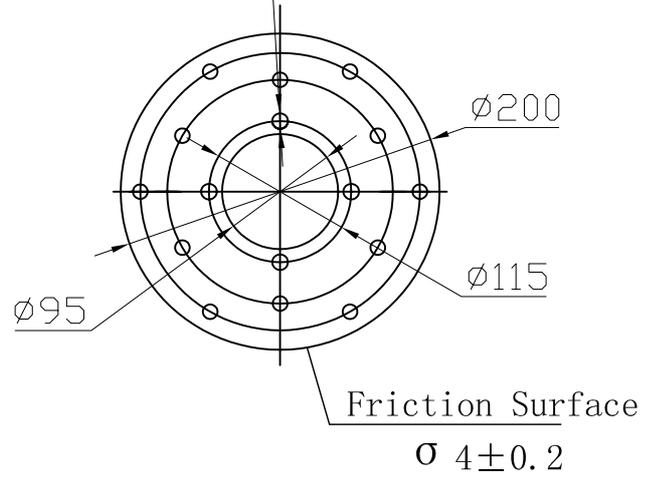


Rear Brake caliper Assembly

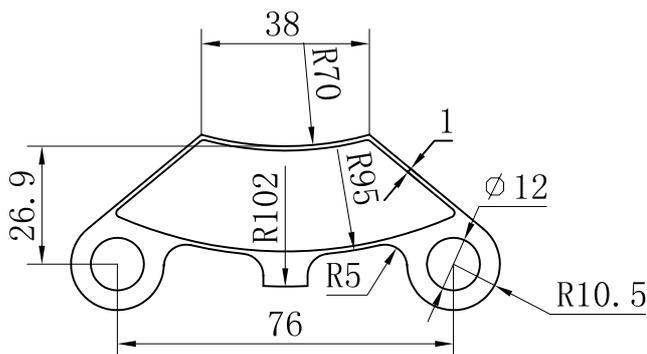
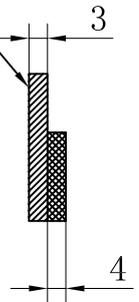
Rear Disc brake Plate



4- $\varnothing 8$ Even Distributed

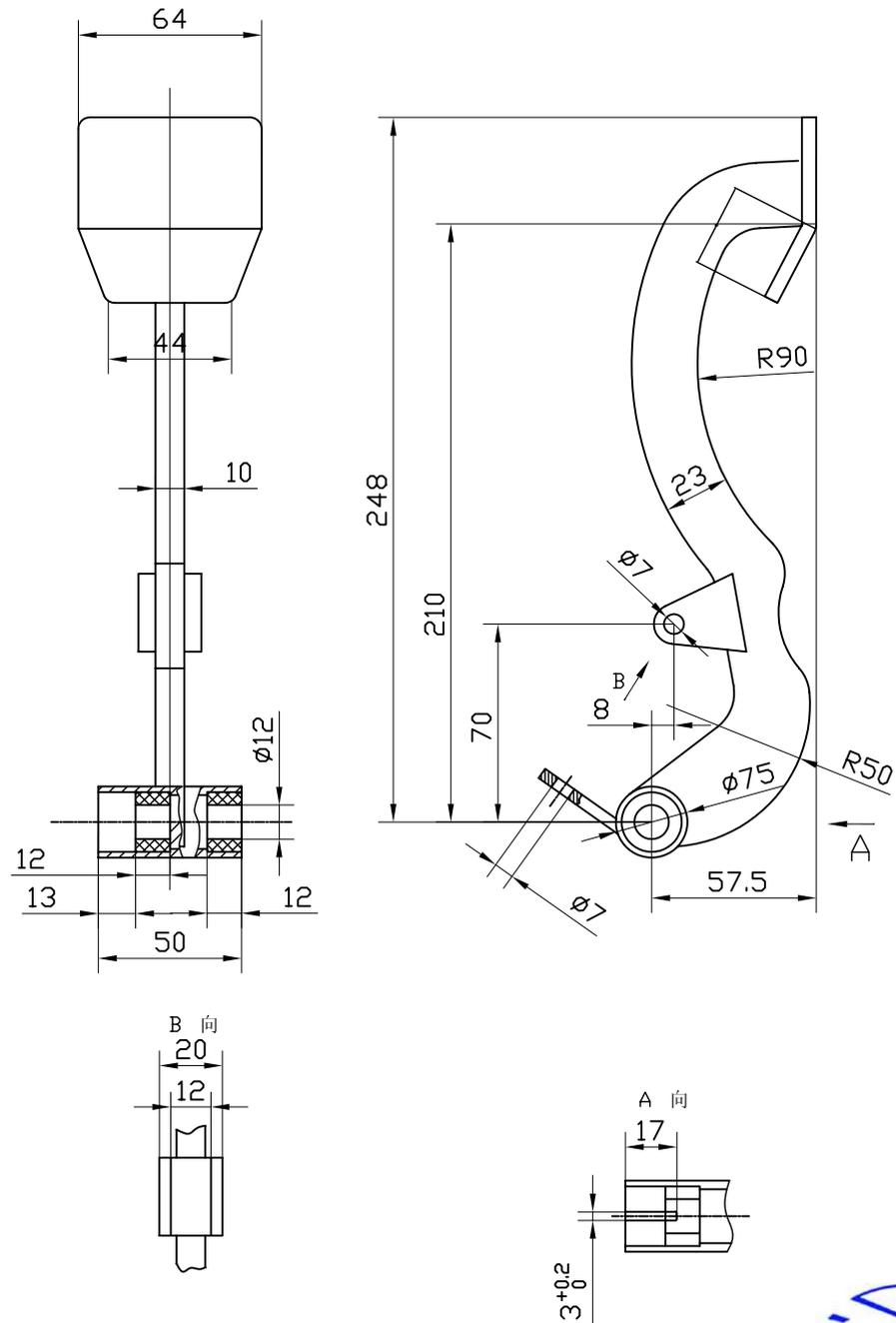


TYPE: FJ009

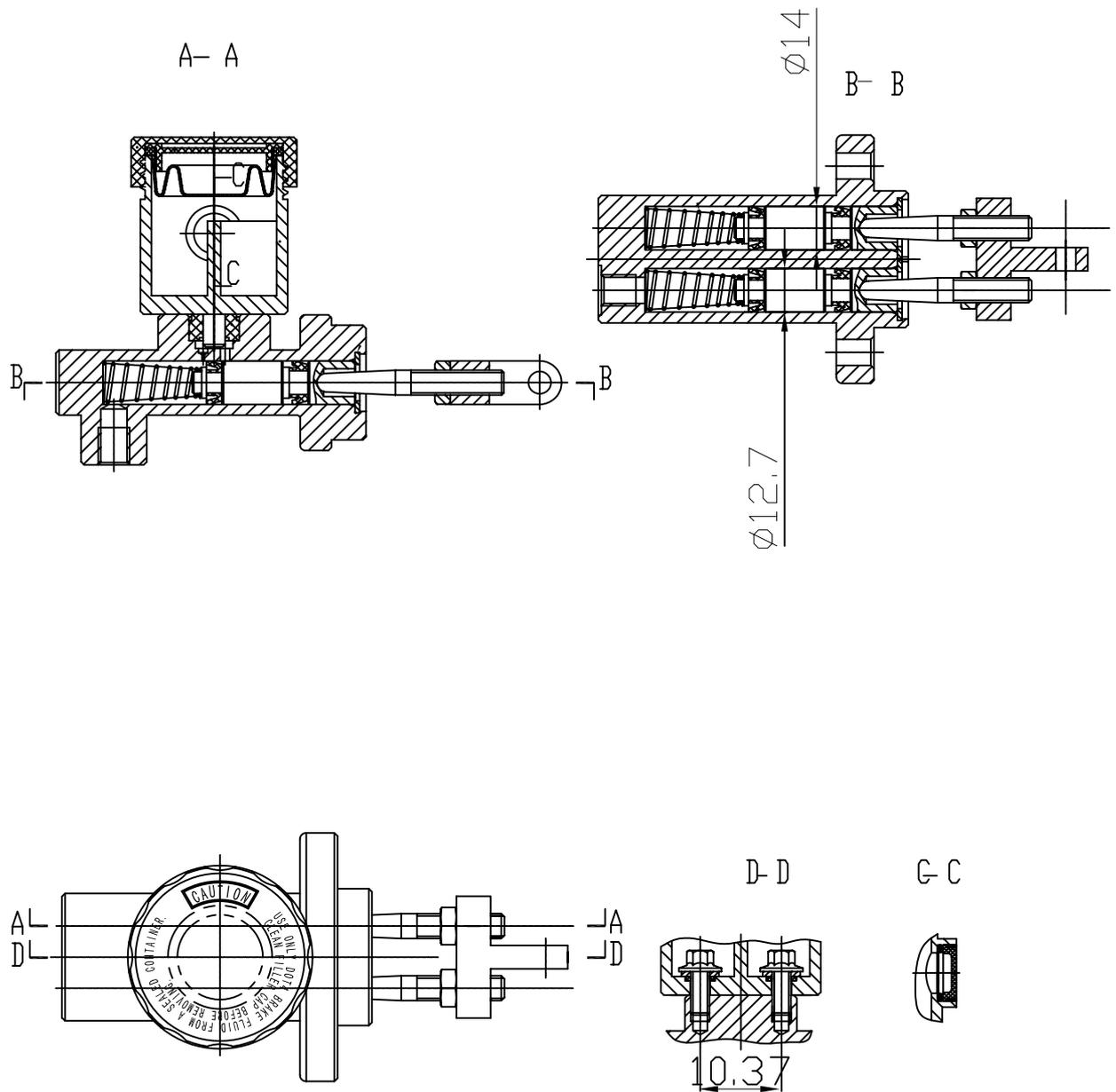


Maker: ChongQing ZhengLing Brake Co., Ltd.

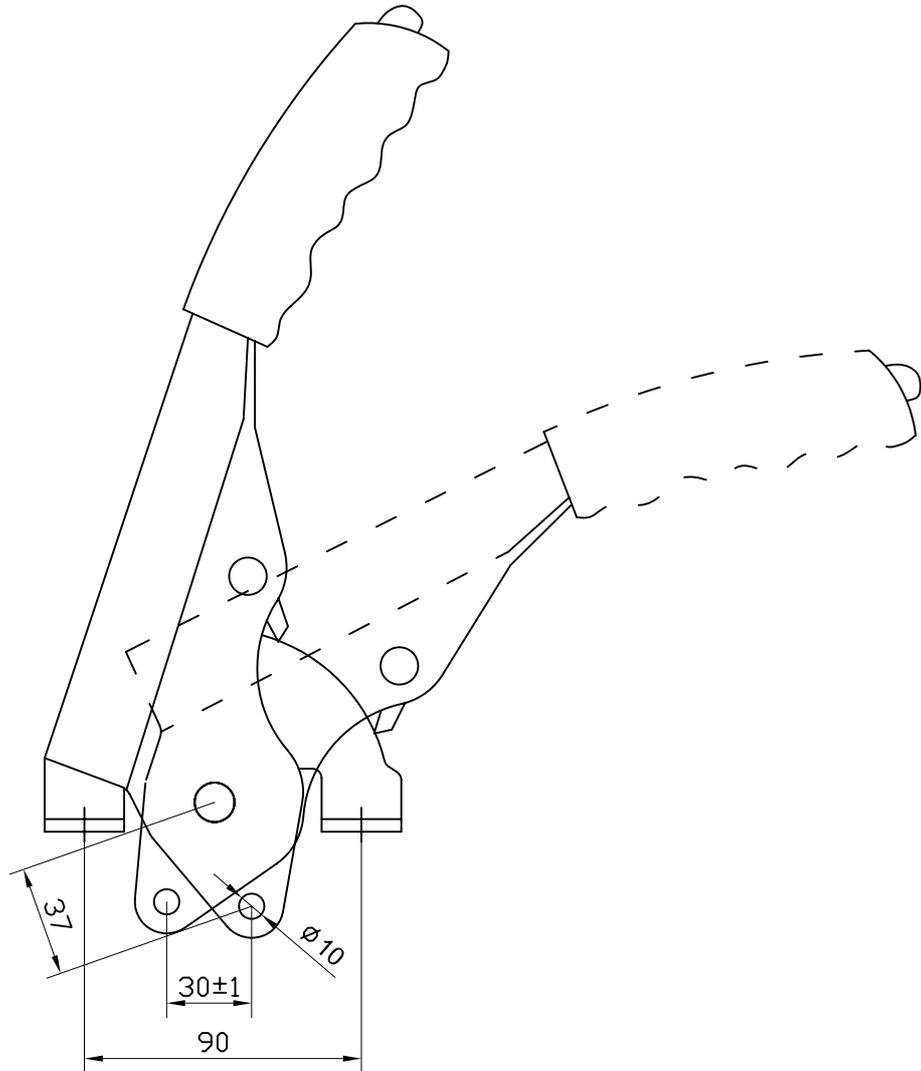
Vehicle Type	XT650GK
	Rear brake
Drawing No.	XT650GK-27



Vehicle Type	XT650GK
Foot Brake Pedal	
Drawing No.	XT650GK-28



Vehicle Type	XT650GK
Hydraulic Reservoir	
Drawing No.	XT650GK-29

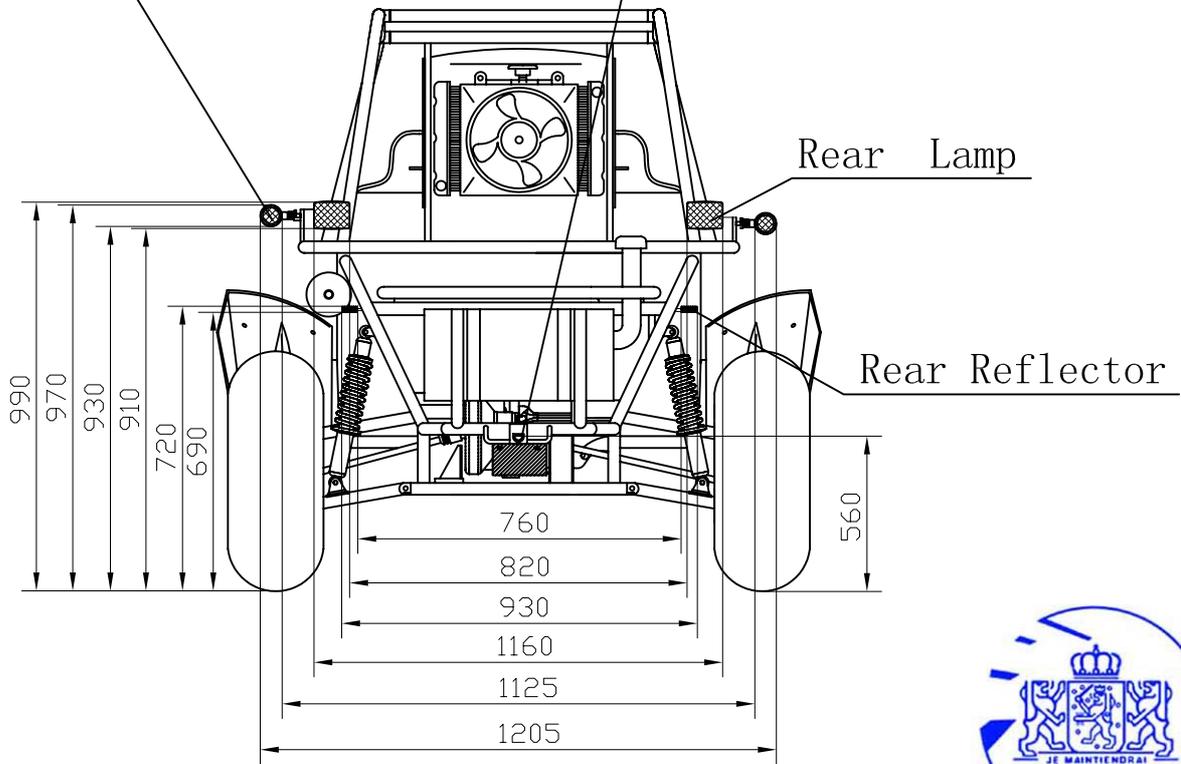


Vehicle Type	XT650GK
parking Brake Handle Bar	
Drawing No.	XT650GK-30



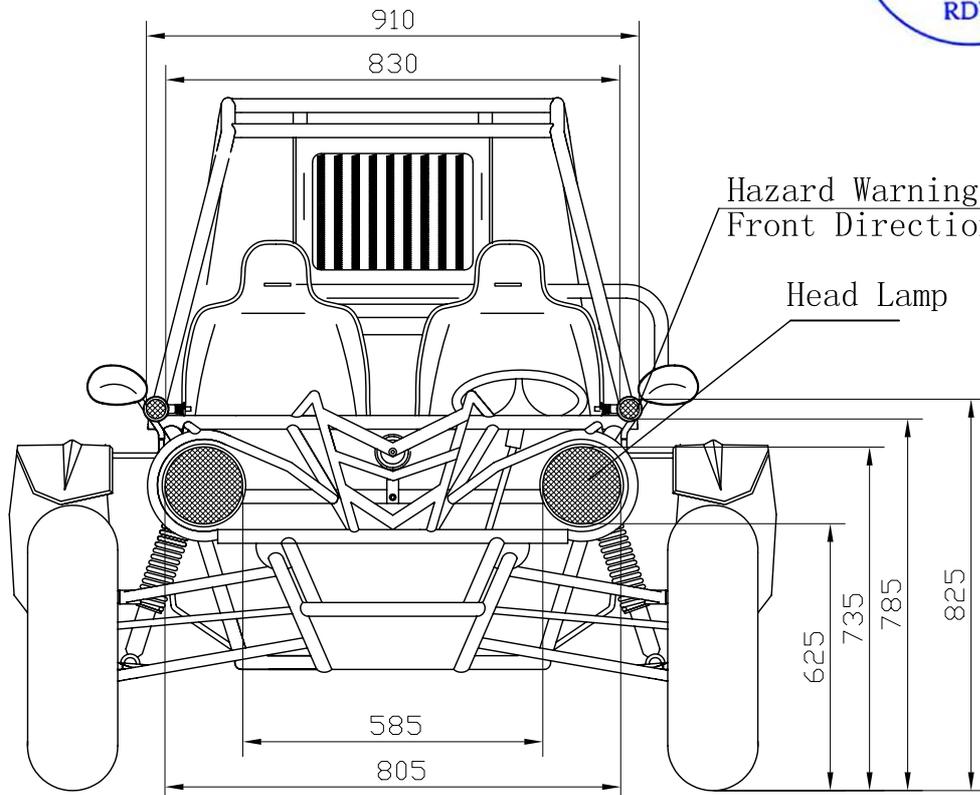
Rear Direction Indicator
Hazard Warning Device

Rear registration plate lamp

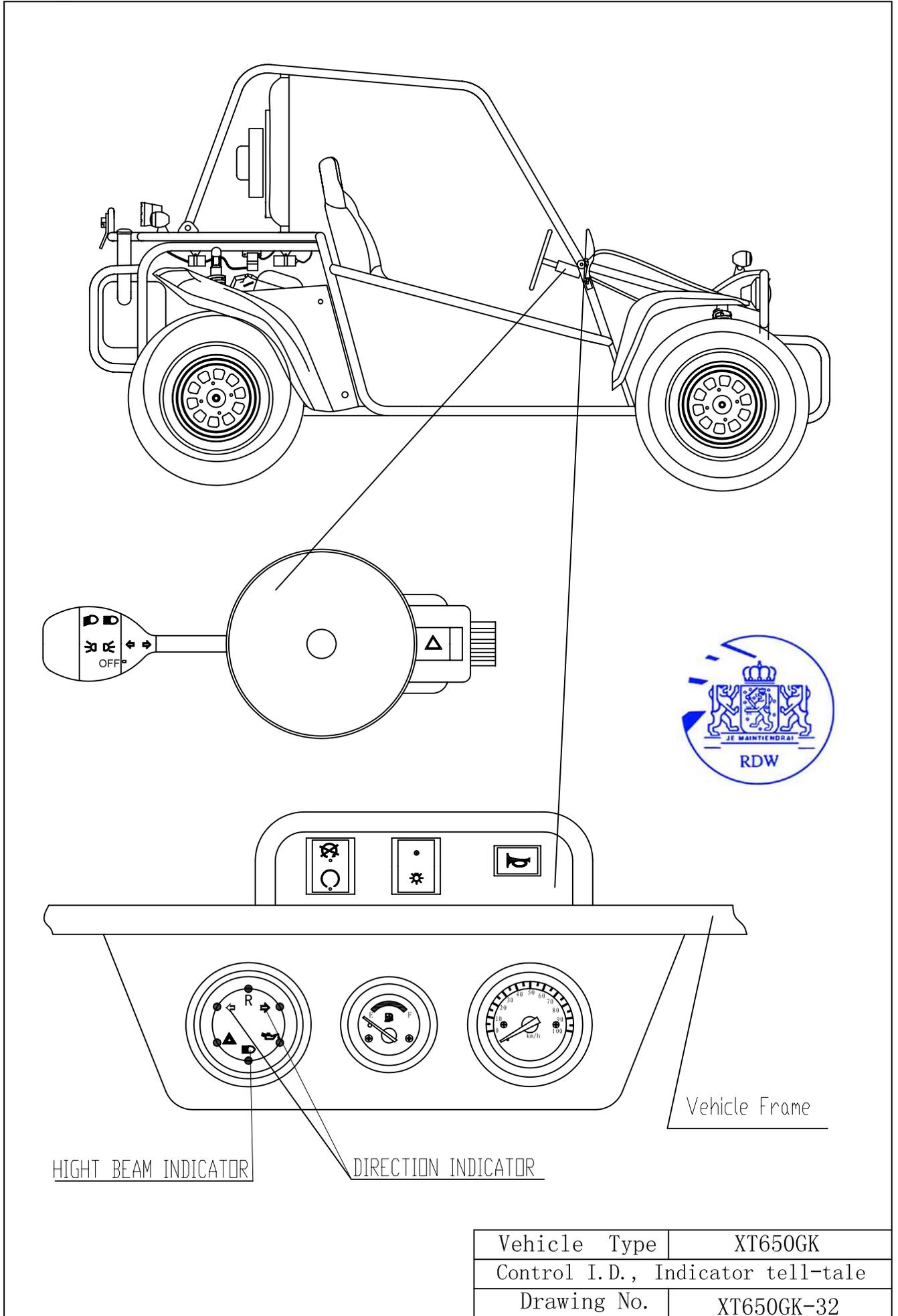


Hazard Warning Device
Front Direction Indicator

Head Lamp



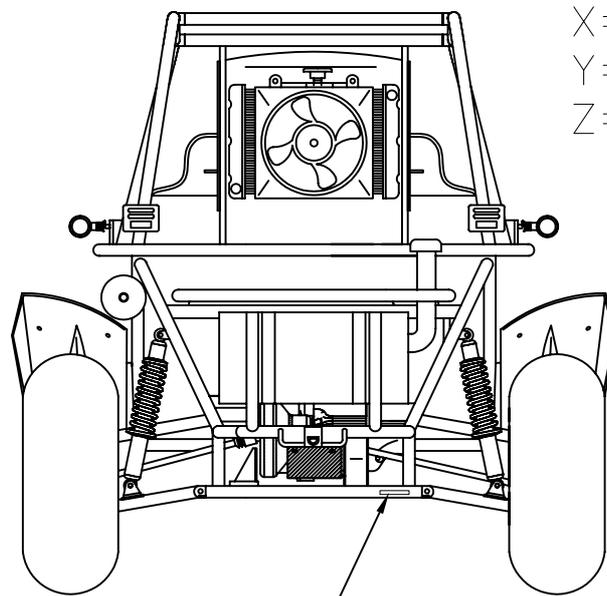
Vehicle Type	XT650GK
Lighting Installation	
Drawing No.	XT650GK-31



HIGHT BEAM INDICATOR

DIRECTION INDICATOR

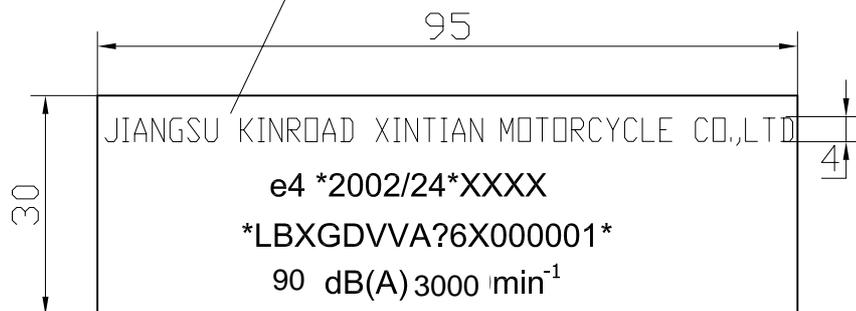
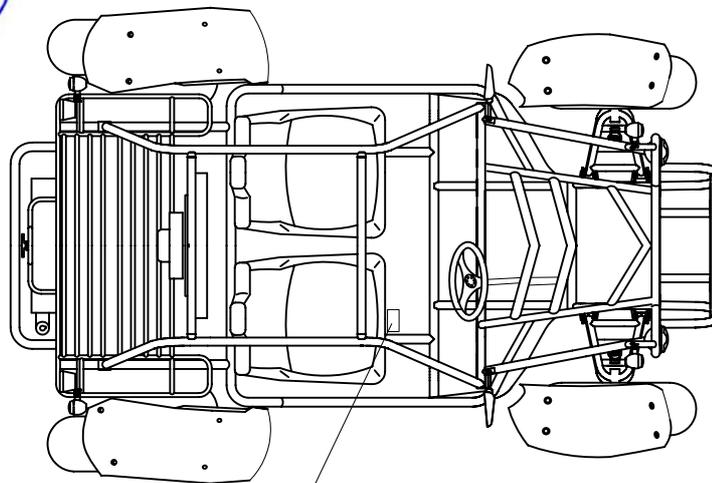
Vehicle Type	XT650GK
Control I.D., Indicator tell-tale	
Drawing No.	XT650GK-32



X=2140
Y=120
Z=285

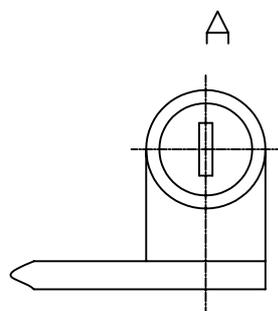
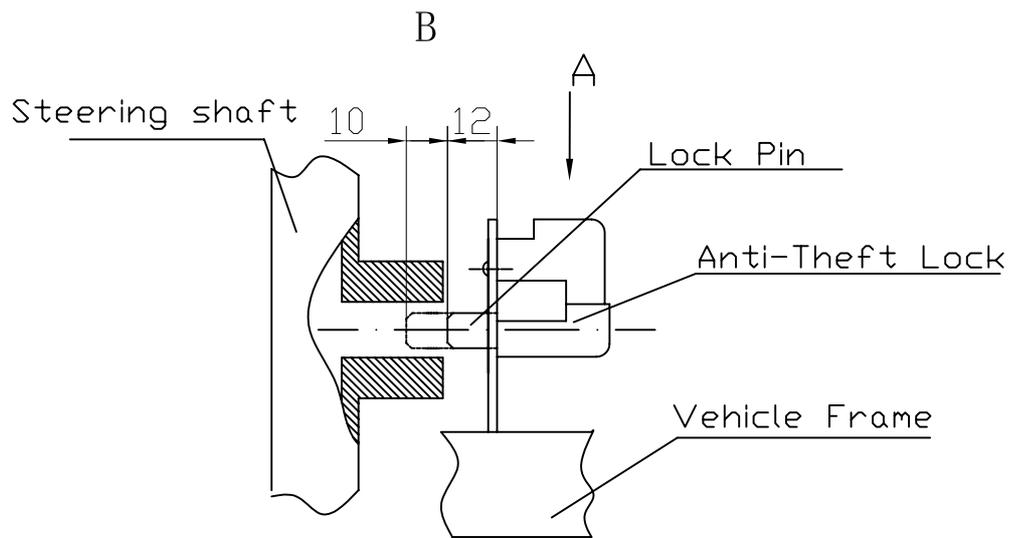
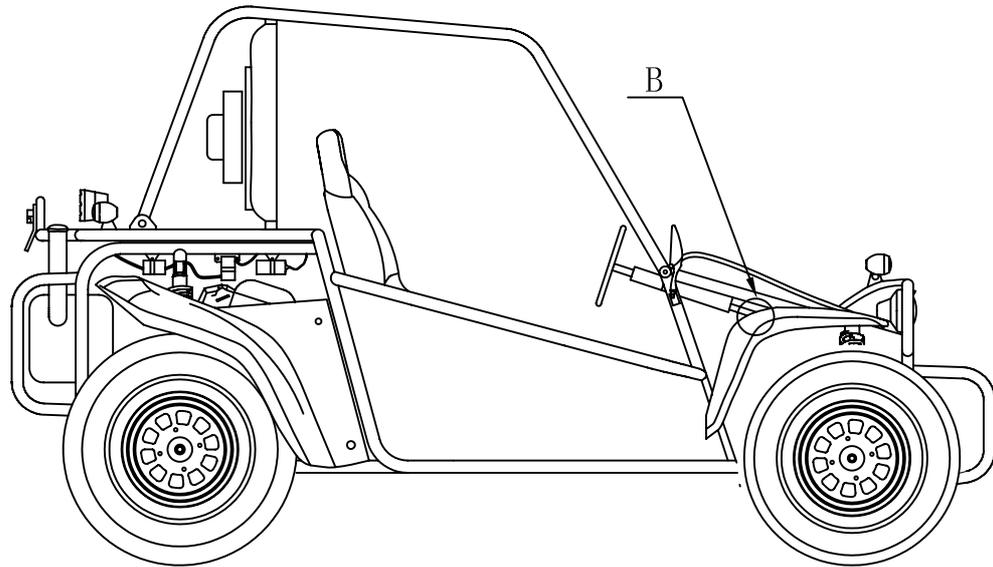


LBXGDVVA?6X000001

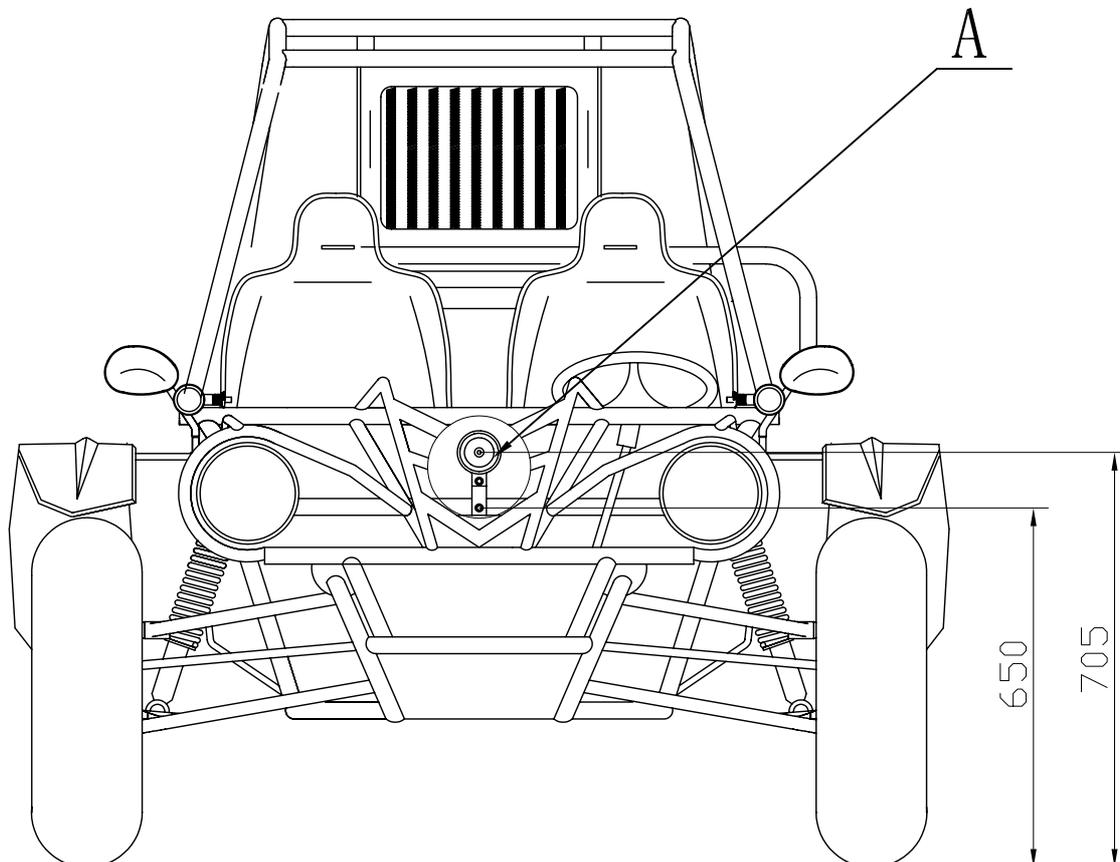


X=560
Y=500
Z=240

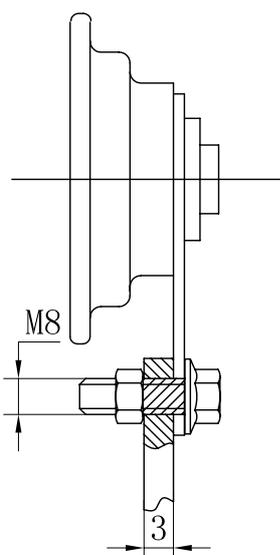
Vehicle Type	XT650GK
Location of The Statutory Chassis Number & VIN	
Drawing No.	XT650GK-33



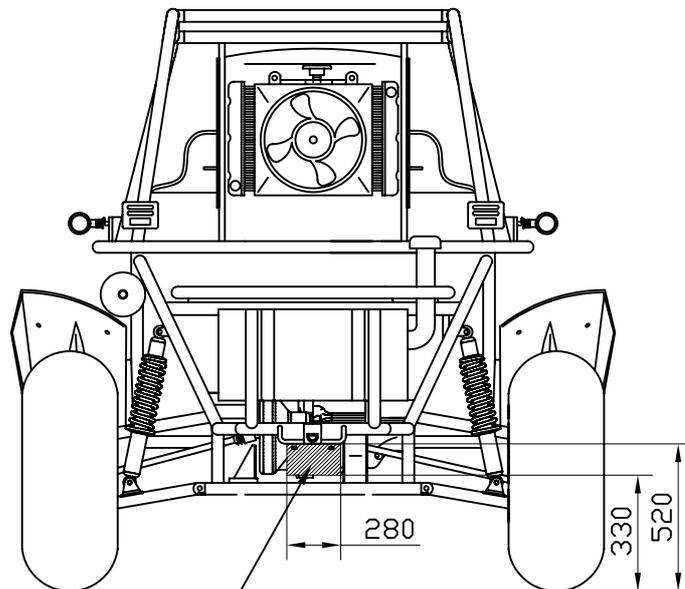
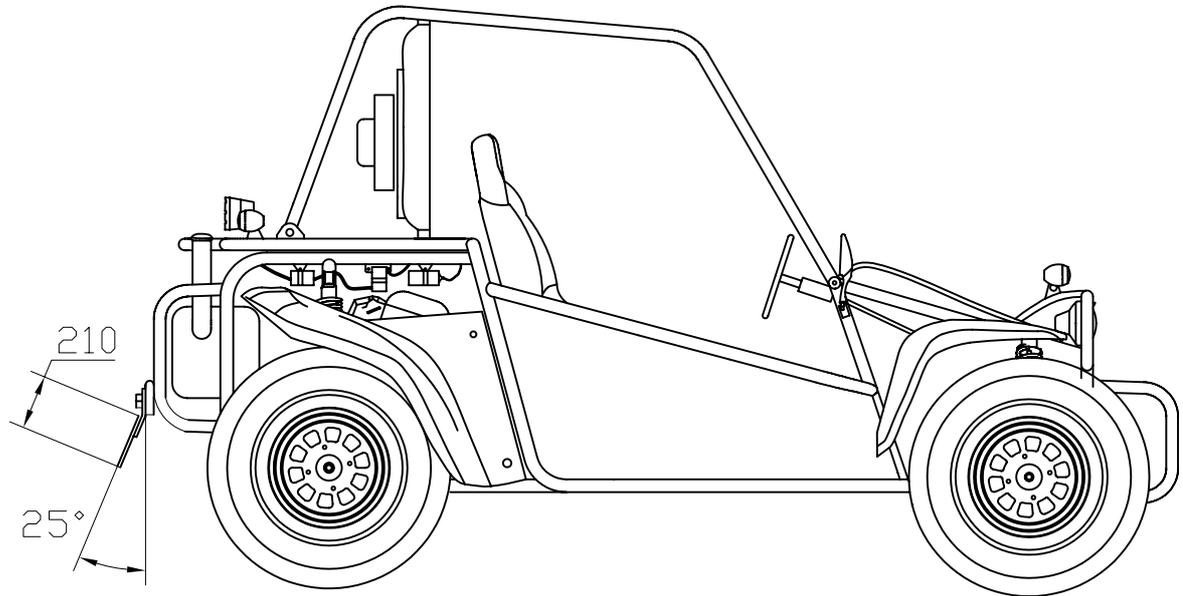
Vehicle Type	XT650GK
Anti-theft device	
Drawing No.	XT650GK-34



A



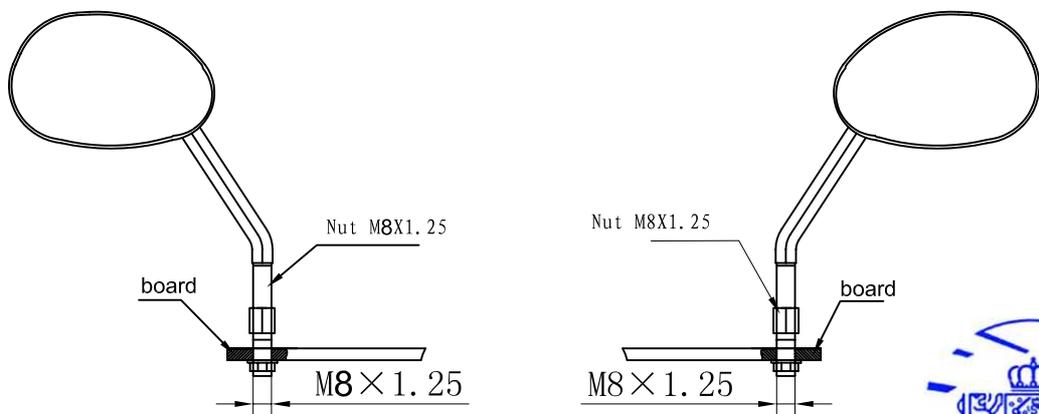
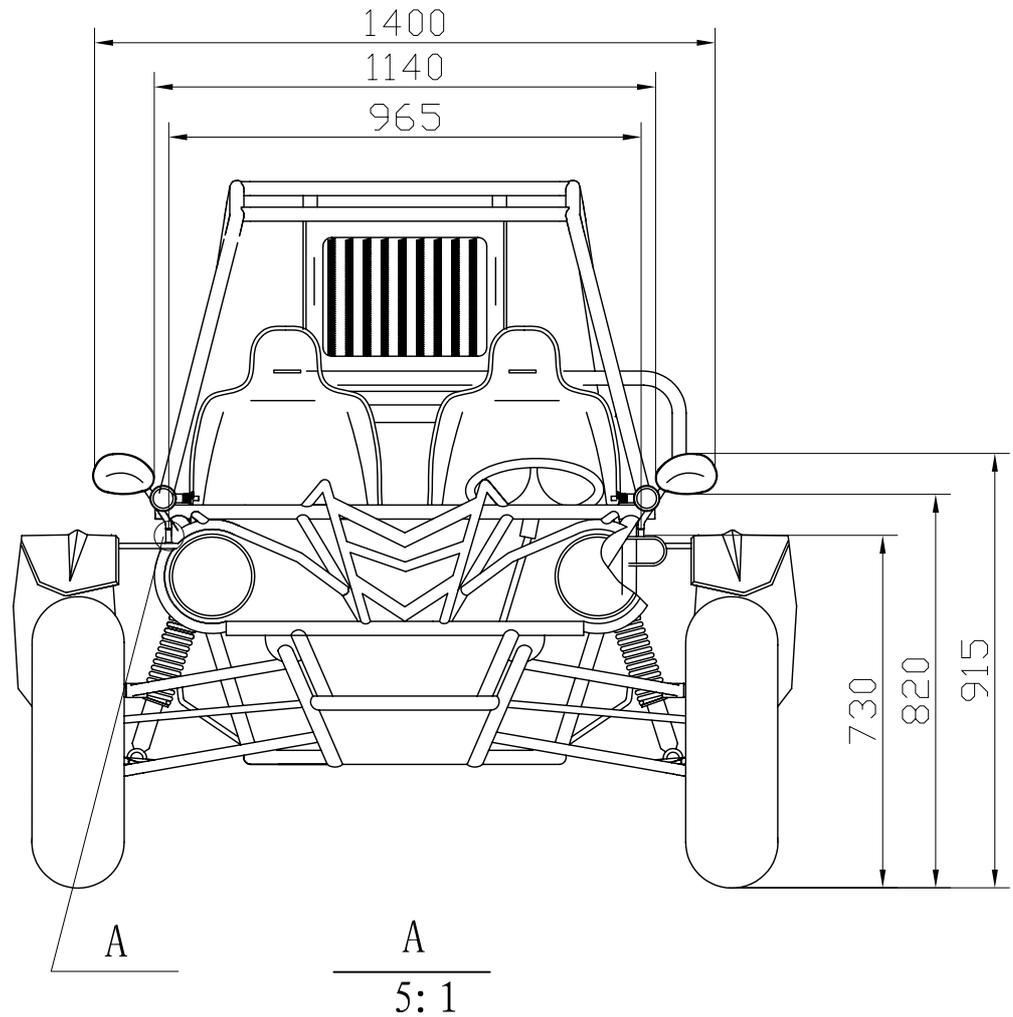
Vehicle Type	XT650GK
Horn Installation	
Drawing No.	XT650GK-35



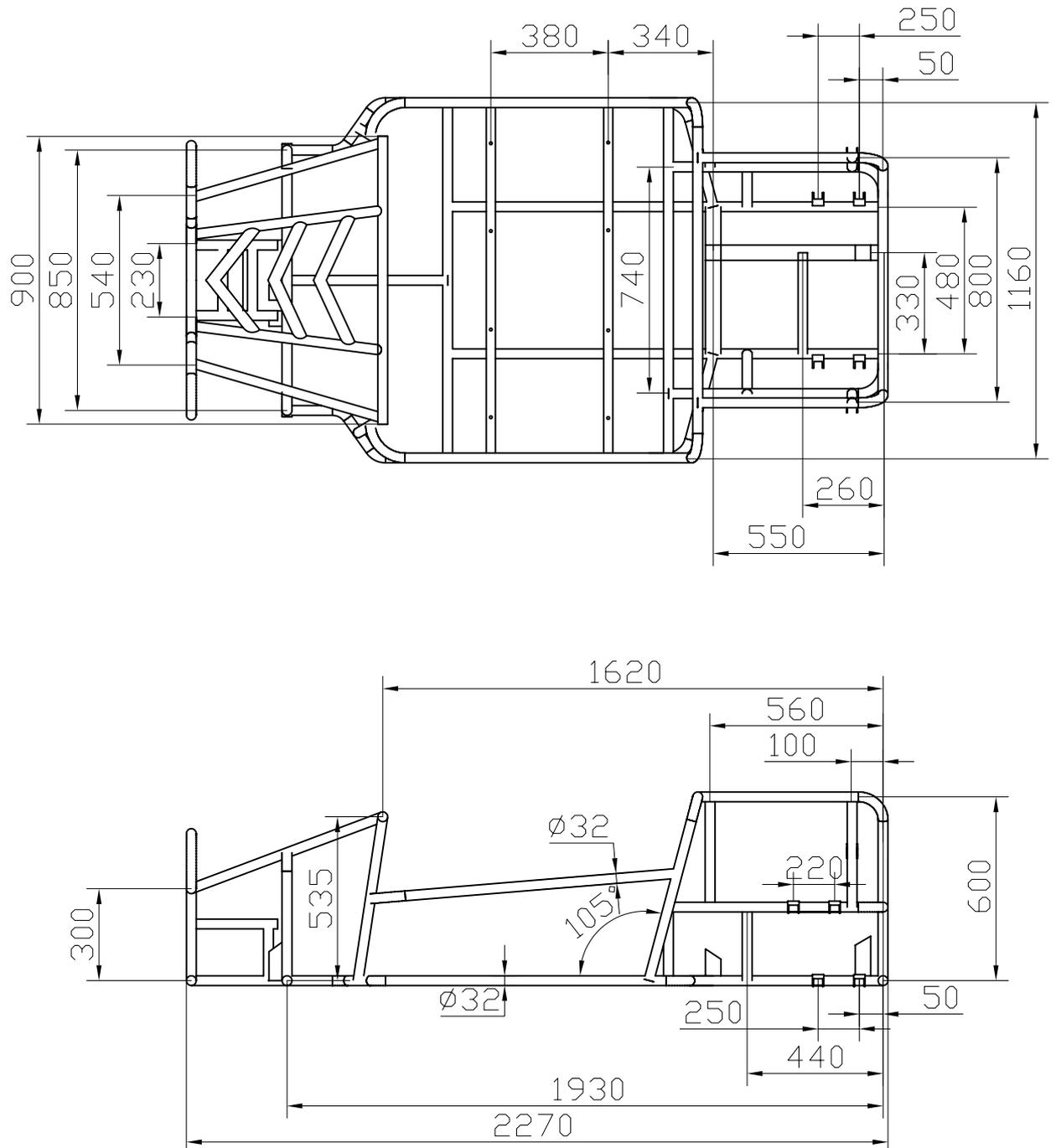
Rear Registration Plate



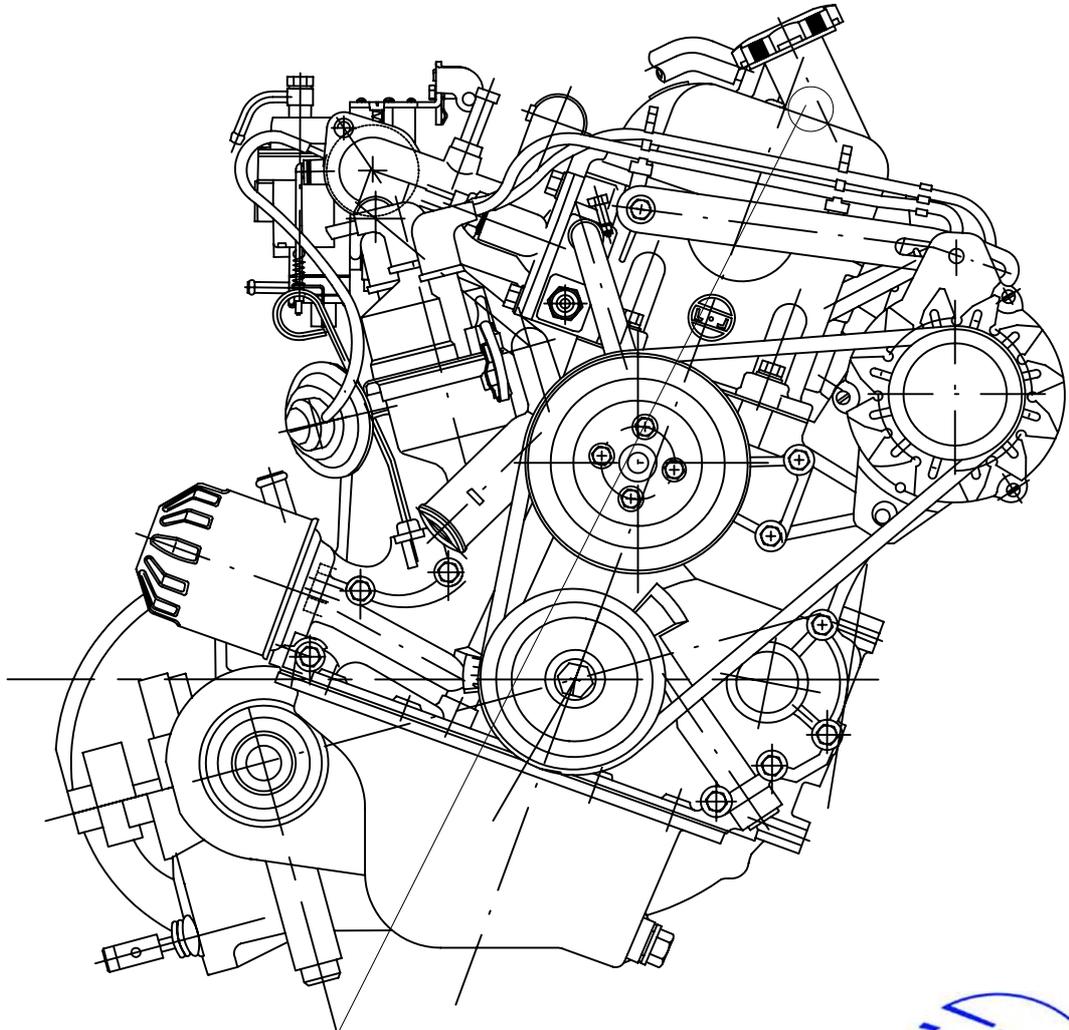
Vehicle Type	XT650GK
Space for Rear Registration Plate	
Drawing No.	XT650GK-36



Vehicle Type	XT650GK
Mirror Installation	
Drawing No.	XT650GK-37

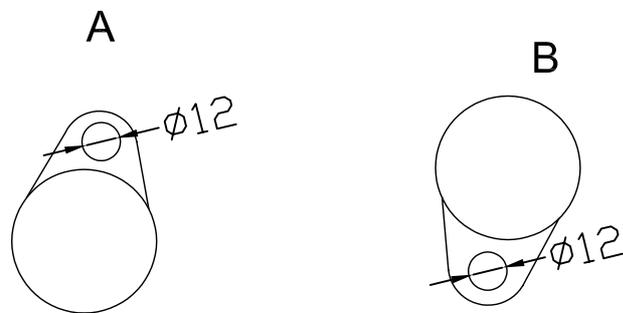
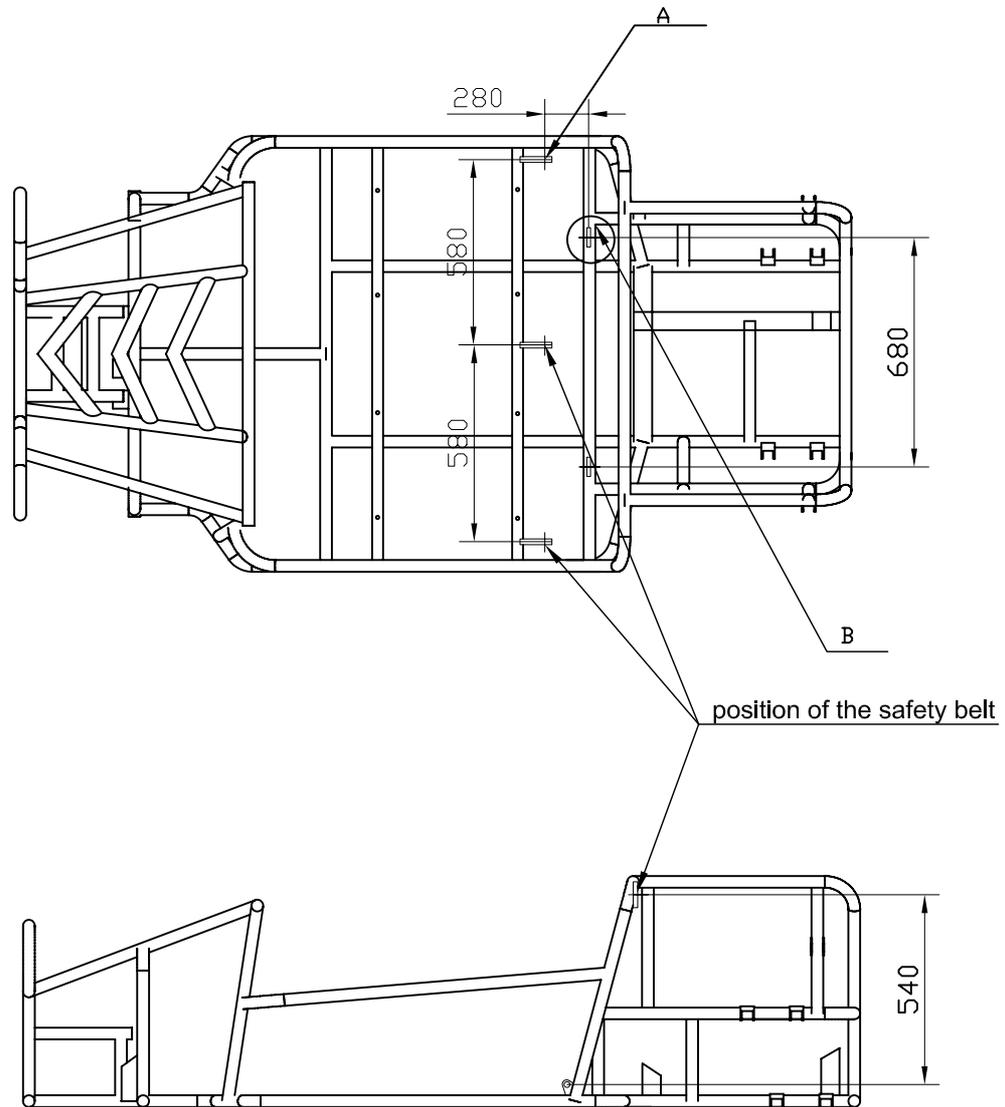


Vehicle Type	XT650GK
Chassis	
Drawing No.	XT650GK-38



POSITION OF ENGINE NUMBER INDICATION

Vehicle Type	XT650GK
ENGINE EXTERNAL VIEW	
Drawing No.	XT650GK-39



Vehicle Type	XT650GK
installation position of the safety belt	
Drawing No.	XT650GK-40

Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China

To whom it may concern,

For the vehicle type XT650GK:

Acc. to 93/33/EC annex 1, No.3.6

The vehicle's key locking system incorporates more than 1000 different combinations.

Acc. to 93/14/EC amend. 2006/27/EC annex , No. 2.1.1.3.

Brake linings do not contain asbestos.

With best regards,



Mr. Gu Jianxin/ General manager
Jiangsu Kinroad Xintian Motorcycle Co., Ltd.



Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China

Statement Concerning Authority Of Signature On COC Paper

We, Jiangsu Kinroad Xintian Motorcycle Co., Ltd., declare that the undersigned, Mr. Gu Jianxin, the General manager of our company, will be the authorized person to sign the COC paper of the motorcycle.

Type: XT650GK

Specification of signature of COC:

A handwritten signature in black ink that reads "Gu Jianxin". The signature is written in a cursive style with a light blue rectangular background behind it.

Mr. Gu Jianxin/ General manager
Jiangsu Kinroad Xintian Motorcycle Co., Ltd.



Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China

EC CERTIFICATE OF CONFORMITY

The undersigned:

Mr. Gu Jianxin

Hereby certifies that the following vehicle:

- | | | |
|--------|---|--|
| 0.1. | Make: | XinTian, Kinroad, JIEHAO, DORTON, BRANSON |
| 0.2. | Type: | XT650GK |
| | Variant: | --- |
| | Version: | XT650GK-A |
| 0.2.1 | Commercial name(s) (where appropriate): | CYCLONE; GRAND EXPOITER; GRAND NASA ;
GRAND ELF; D-650GK-2; BB650 Explorer;
DH650-DB |
| 0.4. | Vehicle category | L7e |
| 0.4.1. | Vehicle category according to Directive 97/24/EC
amend.2006/27/EC,Chapter 7 (if applicable): | n.a. |
| 0.5. | Name and address of the manufacturer: | Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China |
| 0.6. | Location of the statutory plate: | R: x560, y500, z240 |
| | Vehicle identification number: | LBXGDVVA***** |
| 0.7. | Location of the vehicle identification number on the
chassis: | R: x2140, y120, z285 |

Conforms in all respects to the type described in EC type-approval

— EC type-approval number: e4*2002/24*1470*00

— dated: MMMM DD, YYYY

The vehicle can be permanently registered without requiring any further approvals, for driving on the right or left and for using metric /imperial units for the speedometer.

Wuxi, P.R.China
(place)

Gu Jianxin

(signature)

MMMM DD, YYYY
(date)

General manager
(position)



Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China

Additional information

1. Number of axles: 2 and wheels: 4 3. Wheel base: 1960mm
6.1 Length: 2710 mm 7.1 Width: 1640 mm 8. Height: 1480 mm
12.1. Mass of the vehicle (with bodywork) in running order: 413 kg
12.2. Unladen mass of the vehicle: 398 kg
14.1. Technically permissible maximum laden mass: 563 kg
14.2. Distribution of this mass among the axles: 1. 237kg 2. 326kg
14.3. Technically permissible mass on each axle: 1. 240kg 2. 350kg
17. Maximum mass of trailer: (braked): ---kg, (unbraked):---kg
19.1. Maximum vertical load at the coupling point for a trailer: ---kg
20. Engine manufacturer: Taixing lingdi chinery Co., Ltd.
21. Engine type as marked on the engine: LJ276M
21.2. Engine number: 60631115S
22. Working principle: ~~electric~~/ spark ignition / ~~compression ignition~~, four / ~~two~~ stroke
23. Number and arrangement of cylinders: LI / ~~V~~ / ~~O~~ / ~~S~~
24. Cylinder capacity: 644 cm³ 25. Fuel: P / ~~D~~ / ~~M~~ / ~~LPG~~ / ~~O~~
26. Maximum net power or maximum continuous rated power as applicable: 12.5 kW at 4000 min⁻¹
26.1. Ratio: maximum net power or maximum continuous rated power/mass of the vehicle in running order: 0.03 (kW/kg)
28. Gearbox (type): M
29. Gear ratios: 1. 27.66 2. 19.37 3. 14.59 4. 9.2 Reverse: 23.26
32. Tyre size designation: Axle 1: 25×8.0-12 Axle 2: 25×10-12
37. Body: yes/no
41. Number and configuration of doors : not applicable
42.1. Number and position of seats: r1: 1R r2: 1L
43.1. Approval mark of coupling device, if fitted: not applicable
44. Maximum speed: 60 km/h
45. Sound level : 97/24/EC amend. 2006/27/EC chapter 9
Stationary: 90 dB(A) at engine speed: 3000 min⁻¹
Drive-by: 80 dB(A)
46. Exhaust emissions: 97/24/EC amend. 2006/27/EC chapter 5, (row A of table, Annex II, Section 2.2.1.1.5)
Type I test: CO : 4.09 g/km HC: 0.34 g/km
NO_x: 0.25g/km HC+ NO_x : --- g/km
Type II test: for mopeds: CO : -- g/min HC: -- g/min
for motorcycles and tricycles: CO : 0.04 % vol at 900±100 min⁻¹
for motorcycles and tricycles: CO : 0.03 % vol at 2500±100 min⁻¹
Visible air pollution caused by an engine with compression ignition: ---
— corrected value of absorption coefficient : --- m⁻¹
47. Fiscal power or national code number (s) :
Italy : France : Spain :
Belgium : Germany : Luxembourg :
Denmark : Netherlands : Greece :
United kingdom : Ireland : Portugal :
Austria : Sweden : Finland :
Czech Republic : Estonia : Cyprus :
Latvia : Lithuania : Hungary :
Malta : Poland : Slovenia :
Slovakia: Romania: Bulgaria :
50. Remarks : ---
51. Exemptions : ---



TECHNICAL REPORT

according to Council Directive on the approximation of
the laws of the Member States relating to the

Type-approval of two or three-wheel motor vehicles

2002/24/EC

including all amendments until

2006/27/EC

Previously granted	
EEC - system type approval	: ---
ECE - certificate	: ---

0. General information

- 0.1 Make (trade name of the manufacturer) : XinTian, Kinroad, JIEHAO, DORTON,
BRANSON
- 0.2 Type : XT650GK
Variants : ---
Versions : version1: XT650GK-A
version2: XT650GK-B
- 0.3 Category of vehicle : L7e
- 0.4 Name and address of the manufacturer : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China
- 0.5 Order issued by : ---
(if different from manufacturer)
- 0.6 No. of information folder : 2002/24-XT650GK-00
date of issue : October 18, 2006
date of last amendment : ---

1. Test object(s)

- 1.1 Test object(s)
- type : XT650GK
- version : ---
- variant : ---
- 1.2 Remarks : test object's tyres:
25×8.0-12
25×10-12

2. Test minutes

- 2.1 Test facilities : The test equipment used was in compliance with the requirements of the directive
- 2.2 Test results see Appendices
- 2.3 General test information
- Test object / test vehicle received on : ---
- version : ---
- 2.4 Test date : December 13, 2006 to December 27, 2006
- 2.5 Test site : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China
China National Motorcycle Testing Center(Tianjin)
Tianjin, P.R.China
- 2.6 Remark : The results of the test refer exclusively to the object(s) mentioned under point 1.1 of this report.

- 3. Remark concerning tested object(s)** : All versions of the vehicle type as stated in the information document are covered with the tested vehicle version(s) and test object(s) respectively.

4. Appendices

- 0 List of modifications
 - 1 Test minutes of frame directive : 7 Pages
 - 2 Test minutes braking system : 4 Pages
 - 3 Test minutes max. engine power : 4 Pages
and torque
 - 4 Test minutes anti-pollution : 3 Pages
devices
 - 5 Test minutes anti-tampering : Not attached as not relevant to quadricycle
measures
 - 6 Test minutes noise-measuring : 3 Pages
- Information folder

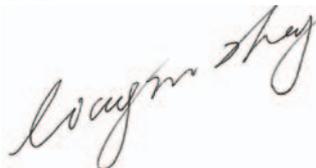
5. Statement of conformity

The information folder and the type described there in comply with the requirements in the above mentioned directive.

The test laboratory is accredited for the above mentioned tests by the accreditation body of the RDW, Vehicle Technology and Information Centre, as the competent Administrative Department for the Netherlands:
Certification No: RDW-99050014-02.

The technical report comprises the pages 1 to 26 (including appendices 0 to 6) and shall not be reproduced except in full without the written approval of the test laboratory.

Cologne, January 17, 2007
LJZ



B.S.M.E. Liangjun zhang



List of modifications

Appendix 0

Correction of : - ---

Modification of : - ---

Addition of : - ---

Deletion of : - ---

Test minutes of frame directive

Appendix 1

0. GENERAL

- 0.1. Make(s) (trade name of the manufacturer): : XinTian, Kinroad, JIEHAO, DORTON, BRANSON
- 0.2. Type: : XT650GK
- Variant(s) : ---
- Version(s) : version1: XT650GK-A
version2: XT650GK-B
- 0.2.1. Commercial name(s): : CYCLONE; GRAND EXPOITER; GRAND NASA ; GRAND ELF; D-650GK-2; BB650 Explorer; DH650-DB
- 0.3. Means of identification of type, if marked on the vehicle : not applicable
- 0.3.1. Location of that marking : not applicable
- 0.4. Category : L7e
- 0.5. Name and address of the vehicle manufacturer: : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China
- 0.5.1. Name(s) and address(es) of assembly plant(s): : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China

1. VEHICLE COMPONENTS AND CHARACTERISTICS

- 4. Name and address of manufacturer's authorized representative : not applicable
- 5. Category of vehicle : L7e
Vehicle equipped with pedals : not applicable
- 6. Number of wheels : 4
Position in case of 3 wheel vehicle : Symmetrical/~~asymmetrical~~
- 7. Outline drawing of frame : see Information Document 2002/24-XT650GK-00,
- 8. Manufacturer of engine : see Information Document 2002/24-XT650GK-00, 3.0
- 9. Make and description of engine : see Information Document 2002/24-XT650GK-00, 3.1
Type : LJ276M
- 10. Type of-engine ignition : spark-ignition engine
- 11. Engine operating cycle : see Information Document 2002/24-XT650GK-00, 3.2.1.1
- 12. Type of engine cooling : see Information Document 2002/24-XT650GK-00, 3.2.7
- 13. Type of engine lubrication : see Information Document 2002/24-XT650GK-00, 3.6
- 14. Number, arrangement and firing order of cylinders : see Information Document 2002/24-XT650GK-00, 3.2.1.2
- 15. Bore, stroke and cylinder capacity or volume of combustion chamber : see Information Document 2002/24-XT650GK-00, 3.2.1.2.1 – 3.2.1.3
- 16. Full diagram of induction system : see Information Document 2002/24-XT650GK-00, 3.2.8.3
- 17. Engine compression ratio : see Information Document 2002/24-XT650GK-00, 3.2.1.4
- 18. Maximum net power and maximum : according to SD 95/1/EC amend. 2006/27/EC

	torque of engine	for test results see Appendix 3
	Conformity checks	: requirements fulfilled
	Approval number	: not applicable
19.	Anti-tampering measures for mopeds and motorcycles	: not applicable
20.	Fuel tank	: according to SD 97/24/EC Chap. 6 amend. 2006/27/EC
	Conformity checks	: requirements fulfilled
	Approval number	: not applicable
21	Traction battery/ies	: not applicable
	Electric traction motor	: not applicable
22	Carburettor or other engine fuel supply	: see Information Document 2002/24-XT650GK-00, 3.2.4.1
23	Electrical system (nominal voltage)	: see Information Document 2002/24-XT650GK-00, 3.2.5
24	Generator (type and maximum output)	: see Information Document 2002/24-XT650GK-00, 3.2.5.2
25.	Maximum design speed of the vehicle	: according to SD 95/1/EC amend. 2006/27/EC
	Maximum design speed	: 60km/h : see Information Document 2002/24-XT650GK-00, 4.6
	Conformity checks	: not applicable
	Approval number	: not applicable
26	Masses and dimensions	: according to SD 93/93/EEC amend. 2004/86/EC
	Conformity checks	: requirements fulfilled
	Approval number	: not applicable
	Mass of vehicle in running order	: see Information Document 2002/24-XT650GK-00, 2.1
	Distribution of that mass between the	: see Information Document 2002/24-XT650GK-00,

axles	2.1.1
Mass of vehicle in running order together with rider	: see Information Document 2002/24-XT650GK-00, 2.2
Distribution of that mass between the axles	: see Information Document 2002/24-XT650GK-00, 2.2.1
Maximum technically permissible mass declared by the manufacturer	: see Information Document 2002/24-XT650GK-00, 2.3
Division of that mass between the axles	: see Information Document 2002/24-XT650GK-00, 2.3.1
Maximum technically permissible mass on the axles	: see Information Document 2002/24-XT650GK-00, 2.3.2
Vehicle length	: 2710 mm
Vehicle width	: 1640 mm
Vehicle height	: 1480 mm
Wheel base	: 1960 mm
27. Coupling devices and their attachment	: not applicable
28. Anti-pollution devices	: according to SD 97/24/EC amend. 2006/27/EC Chap. 5 for test results see Appendix 4
Conformity checks	: requirements fulfilled
Approval number	: not applicable
29. Tyres	: according to SD 97/24/EC amend. 2006/27/EC Chap. 1, see Information Document 2002/24-XT650GK-00, 5.2
Conformity checks	: requirements fulfilled

Tyres of any tyre manufacturer may be fitted provided that they are of the same dimensions, E/e-mark approved according to ECE-R75 or 97/24/EC amend. 2006/27/EC, chapter 1 and of a load index of 35(front tyre) / 47 (rear tyre) or more and a speed index of F or more.

30. Transmission manual
31. Braking system : according to SD 93/14/EEC amend. 2006/27/EC
for test results see Appendix 2
- Conformity checks : requirements fulfilled
- Approval number : not applicable
32. Installation of lighting and light-
signalling devices : According to SD 93/92/EEC amend. 2000/73/EC
- Conformity checks : requirements fulfilled
- Approval number : not applicable
33. Lighting and light-signalling devices : according to SD 97/24/EC amend. 2006/27/EC Chap. 2
- Conformity checks : requirements fulfilled
- Approval number : see Information Document 2002/24-XT650GK-00, 8.1
34. Audible warning device : according to SD 93/30/EEC
- Conformity checks : requirements fulfilled
- Approval number acc. to 93/30/EEC, : not applicable
annex II
- Approval number acc. to 93/30/EEC, : see Information Document 2002/24-XT650GK-00,
annex I 9.5.5
35. Position of mounting rear registration : according to SD 93/94/EEC amend. 1999/26/EC
plate
- Conformity checks : requirements fulfilled
- Approval number : not applicable
36. Electromagnetic compatibility : according to SD 97/24/EC amend. 2006/27/EC Chap.
8,
see Information Document 2002/24-XT650GK-00,
3.2.6.8
- Conformity checks : requirements fulfilled
- Approval number : not applicable

37. Sound level and exhaust system : according to SD 97/24/EC amend. 2006/27/EC Chap. 9, for test results see Appendix 6
- Conformity checks : requirements fulfilled
- Approval number : not applicable
- Make of exhaust system : see Information Document 2002/24-XT650GK-00, 3.2.9
- Type of exhaust system : 1 main exhaust silencer interconnected pipe
- Sound level
- stationary noise, dB(A) at rpm : 90 / 3000
- noise when in motion in dB(A) : 80
38. Rear-view mirror(s) : according to SD 97/24/EC Chap. 4 amend. 2006/27/EC
- Conformity checks : requirements fulfilled
- Approval number (Arrangement) : not applicable
- Approval number (Component) : see Information Document 2002/24-XT650GK-00, B 1.1.2
39. External projections : according to SD 97/24/EC amend. 2006/27/EC Chap. 3
- Conformity checks : requirements fulfilled
- Approval number : not applicable
40. Stand : not applicable
41. Devices to prevent unauthorized use : according to SD 93/33/EEC amend. 2000/72/EC
- Conformity checks : requirements fulfilled
- Approval number : not applicable
42. Windows, windscreen wipers, windscreen washers for vehicle with bodywork : not applicable
43. Hand-hold for two-wheel vehicles : not applicable

44. Anchorage points for safety belts and safety belts for vehicle with bodywork : not applicable
45. Speedometer : according to SD 2000/7/EC
see Information Document 2002/24-XT650GK-00, 4.7
- Conformity checks : requirements fulfilled
- Approval number : not applicable
46. Identification of controls, tell-tales and indicators : according to SD 93/29/EEC amend. 2000/74/EC,
see Information Document 2002/24-XT650GK-00, 9.2
- Conformity checks : requirements fulfilled
- Approval number : not applicable
47. Statutory inscriptions : according to SD 93/34/EEC amend. 2006/27/EC,
see Information Document 2002/24-XT650GK-00, 9.3
- Conformity checks : requirements fulfilled
- Approval number : not applicable
- Location of statutory plate : Fasten at the right side of the vehicle chassis, metal rivet fixed.

Test minutes braking system

Appendix 2

0. Test condition

Test place : China National Motorcycle Testing Center(Tianjin)
Tianjin, P.R.China

1 Test facilities : The test equipment used was in compliance with the requirements of the directive.

2 Test object(s)

2.1 Type : XT650GK

Version : ---

Variant : version1: XT650GK-A
version2: XT650GK-B

2.2 Technically permissible mass on axles

axle 1 [kg] : 240

axle 2 [kg] : 350

2.3 Load conditions of the vehicle during the test

	unladen	laden
axle 1 [kg]	210	237
axle 2 [kg]	278	326
total [kg]	488	563

2.4 Number and arrangement of the axles : 2 axles

2.5 Brief description of the service braking : ~~front/rear~~ / combined device

Combined brake : hand lever, hydraulic transfer, four disc brake

- Manufacturer of brake pad : ChongQing Zheng Ling Brake Co., Ltd.

- Manufacturer of master cylinder : ChongQing Zheng Ling Brake Co., Ltd.

- Manufacturer of wheel cylinder : ChongQing Zheng Ling Brake Co., Ltd.

Secondary brake : hand lever, lining transfer, two disc brake

- Manufacturer of brake pad : ChongQing Zheng Ling Brake Co., Ltd.

- Manufacturer of master cylinder : ChongQing Zheng Ling Brake Co., Ltd.

- Manufacturer of wheel cylinder : ChongQing Zheng Ling Brake Co., Ltd.

2.6 Other devices (anti-lock, etc..) : Parking Brake on Front Wheels

3 Test results

3.1 Type-0 test, with engine disconnected

Conditions	test speed [km/h]	measured performance [m/s ²]	Measured force applied to control [N]
unladen, dry brakes			
service brake	54	5.35	294
secondary brake	54	2.95	143
laden, dry brakes			
service brake	54	5.24	325
secondary brake	54	3.02	187
reference test for wet brake (laden)			
service brake, 0.5-1s	-	-	-
service brake, maximum	-	-	-
secondary brake, 0.5-1s	-	-	-
secondary brake, maximum	-	-	-
laden, wet brakes			
service brake, 0.5-1s	-	-	-
service brake, maximum	-	-	-
secondary brake, 0.5-1s	-	-	-
secondary brake, maximum	-	-	-

3.2 Type-0 test, engine connected

condition : unladen
dry brakes
both service braking devices applied

conditions	test speed [km/h]	measured performance [m/s ²]	measured control force combined foot pedal [N]
v_{max} = 60 km/h			
30% v _{max}	18	5.64	288
55% v _{max}	33	5.06	250
80% v _{max}	48	5.24	295

3.3 Type-1 test, (fade test)

condition : Laden
dry brakes

distance between the initiation of : 1000 m
two consecutive stops

number of brakings : 10

Conditions		service brake
		combined
applied force to the control to maintain a mean deceleration of 3 m/s ²	[N]	165
initial vehicle speed	[km/h]	42

Conditions 60-120 % of ref. Test	test speed [km/h]	Measured performance [m/s ²]	measured force applied to control [N]
reference test service brake	54	5.24	325
type-I test service brake	54	4.36	314
reference secondary brake	-	-	-
type-I test secondary brake	-	-	-

Test minutes max. engine power and torque

Appendix 3

0. Test condition
- Test place : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.
Outang Town, Wuxi City
214153, Jiangsu Province
P.R. China
- 1 Test facilities : The test equipment used was in compliance with the requirements of the directive.
- 2 Test Vehicle(s)
- 2.1 Type : XT650GK
- Variant : ---
- Version : version1: XT650GK-A
version2: XT650GK-B
- 2.2 Engine type / number : LJ276M / 0508A0180
3. Engine performance
- 3.1 Test conditions
- 3.1.1 Pressures measured at maximum power
- 3.1.2 Barometric : 102.2kPa
- 3.1.3 Water vapour pressure : 0.42 kPa
- 3.1.4 Exhaust : ---
(to be measured when the original induction systems are not used)
- 3.1.5 Inlet depression at engine intake : ---
system (to be measured when the original induction systems are not used)
- 3.1.6 Temperatures measured at maximum power of the engine

Intake air : 292 K

Outlet of the inlet inter- cooler : ---

Cooling liquid

Engine cooling liquid outlet : 362 K

Reference point in case of air
cooling : ---

Oil in the oil sump : 361 K

Fuel

Carburettor intake : 300 K

Fuel-consumption measuring
device : 299 K

Exhaust gas, measured at the point : 1005 K
adjacent to the outlet flange(s) of
the exhaust manifolds

3.1.7 Characteristics of the dynamometer

Make : Tianjin Keda Measurement & Control Technology Co.,
Ltd.

Type : Direct-Current ACD-30

3.1.8 Fuel

For positive ignition engines
operating on liquid fuel

Make : Haltermann

Specification : Haltermann High Octane Gasoline

Anti-knock additive (lead, etc.)

Type : unlead

Content mg/litre : 0.75

Octane number

RON No. : 95

MON No. : 85

Relative density
at 15 ° C : 0.750
at 4 ° C : 0.753

Calorific value : 46,900 kJ/kg

3.1.9 Lubricant

Make : SHELL

Specifications : ---

SAE viscosity grade : 15W-40

3.1.10 Correction factor for mechanical efficiency of the transmission

Overall factor ($n1*n2*n3*n4$) : 1.000

Gear wheel (n1) : ---

Chain (n2) : ---

Belt (n3) : ---

Hydraulic coupling or converter (n4) : ---

Detailed results of measurement

Engine speed	Rotational speed of dynamometer brake	Dynamometer brake load	Torque measured at crankshaft	Power measured	Barometric pressure	Ingested air temperature	Steam pressure	Atmospheric correction factor a1	Mechanical correction factor a2	Corrected torque at crankshaft	Corrected power	Measured fuel flow (not corrected)	Engine cooling temperature b)	Oil temperature at measuring point	Air temperature after pressure charger	Exhaust temperature	Air temperature downstream of	Pressure downstream of supercharger
min ⁻¹	min ⁻¹	N	Nm	kW	KPa	K	kPa			Nm	kW	g/kWh	K	K	K	K	K	kPa
4504	--	--	23.61	11.14	102.2	292	0.42	0.956	1.000	22.57	10.64	363	353	358	--	1032	--	--
4256	--	--	29.41	13.11	102.2	292	0.42	0.956	1.000	28.11	12.53	345	359	360	--	1014	--	--
4008	--	--	31.29	13.13	102.2	292	0.42	0.956	1.000	29.91	12.55	339	362	361	--	1005	--	--
3766	--	--	31.81	12.55	102.2	292	0.42	0.956	1.000	30.41	11.99	352	364	362	--	974	--	--
3509	--	--	33.49	12.31	102.2	292	0.42	0.956	1.000	32.01	11.76	340	367	363	--	925	--	--
3243	--	--	32.44	11.02	102.2	292	0.42	0.956	1.000	31.01	10.53	349	366	363	--	908	--	--
3006	--	--	31.66	9.97	102.2	292	0.42	0.956	1.000	30.26	9.53	368	362	362	--	875	--	--
2759	--	--	30.15	8.71	102.2	292	0.42	0.956	1.000	28.82	8.33	371	361	360	--	862	--	--

Location of measuring point : the measurement has been carried out :
a) at the liquid cooling point
b) at the spark plug washer
c) elsewhere , at

Maximum net power, measured : **12.55 kW at 4008 min⁻¹**

Maximum net torque, measured : **32.01 Nm at 3509 min⁻¹**

Maximum net power, rated : **12.5 kW at 4000 min⁻¹**

Maximum net torque, rated : **32.0 Nm at 3500 min⁻¹**

Test minutes anti-pollution devices

Appendix 4

- 0. Test condition
 - Test place : China National Motorcycle Testing Center(Tianjin)
Tianjin, P.R.China
- 1 Test facilities : The test equipment used was in compliance with the requirements of the directive.
 - 1.1 Equivalent inertia mass : 510 kg
- acc. to section 5.2
 - 1.2 Absorbed power Pa : 1.50KW at 50 km/h
- acc. to section 5.2
 - 1.3 Method of setting according to : Annex II, Appendix 1, point 5.1.3 of the directive.
- 2 Test Vehicle(s)
 - 2.1 Type : XT650GK
 - Version : version1: XT650GK-A
version2: XT650GK-B
 - Variant : ---
 - 2.2 Identification number : LBXGDVVA16X000001
 - 2.3 Masses
 - 2.3.1 Mass in running order : 413 kg
 - 2.3.2 Reference mass (mass in running order + 75 kg) : 488 kg
 - 2.3.3 Maximum mass of vehicle : 563 kg
 - 2.4 Gear box
 - 2.4.1. Transmission type : manual
 - 2.4.2. Number of gear ratios : 4 gears

2.4.3. Gear ratio

(primary)	: 1.33
First gear	: 4.00
Second gear	: 2.80
Third gear	: 2.11
Fourth gear	: 1.33
Fifth gear	: ---
Final drive ratio	: 5.20

Tyres	front	rear
dimensions	25×8.0-12	25×10-12
dynamic rolling circumference	1880mm	1930mm

2.4.4. Check of performances referred to in annex II, appendix 1, paragraph 3.1.5. to this regulation : not applicable

2.5 Tire pressure of the driven wheel on the dynamometer : Front 100 kPa
Rear 100 kPa

3 Type I test : (verifying the average emission of gaseous pollutants in a congested urban area)

	CO [g/km]	HC [g/km]	NOx [g/km]	HC+NOx [g/km]
1st measured value*	4.09	0.34	0.25	---
2nd measured value*	---	---	---	---
3rd measured value*	---	---	---	---
mean value*	4.09	0.34	0.25	---
test result*	4.09	0.34	0.25	---
limit value 4-stroke	7.0	1.5	0.4	---
	4.0	---	---	4.2

* rounded value

4 Type II test : (verifying the emission of carbon monoxide at idling speed)

CO corr.	0.04Vol. %	0.03Vol. %
idling speed	850 min ⁻¹	2550 min ⁻¹
Engine oil temperature	84°C	83°C
limit value	4.5 %	

5 Reference fuel No. : CEC 08-A-85

Test minutes noise-measuring

Appendix 6

0. Test condition
- Test place : China National Motorcycle Testing Center(Tianjin)
Tianjin, P.R.China
- 1 Test facilities : The test equipment used was in compliance with the requirements of the directive.
- 2 Test Vehicle(s)
- 2.1 Type : XT650GK
Version : version1: XT650GK-A
version2: XT650GK-B
- Variant : ---
- 2.2 Identification number : LBXGDVVA16X000001
- 2 Engine
- 2.1 Manufacturer : Taixing lingdi chinery Co., Ltd.
- 2.2 Type : LJ276M
- 2.3 Model : four-stroke / ~~two-stroke~~
- 2.4 Rated max. power : 12.5 kW at 4000 min⁻¹(95/1/EC)
(according to ...)
- 2.5 Maximum design speed [km/h] : 60 km/h
- 3 Transmission : manual transmission

4 Equipment

4.1 Exhaust silencer

Manufacturer or authorised representative : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.

Model : expansion, reflection

EEC type-approval number : ---

Type : Kinroad650GK FUXING 272M

in acc. with drawing no. : XT650GK-17

4.2 Intake silencer

Manufacturer or authorized representative : Jiangsu Kinroad Xintian Motorcycle Co., Ltd.

Model : air filter, dry

EEC type-approval number : not applicable

Type : - case
- element
- cover
- inlet duct

in acc. with drawing no. : XT650GK-15

4.3 Tyre size

- front : 25×8.0-12

- rear : 25×10-12

5 Measurement

5.1 Sound level of motorcycle in motion

5.1.1 Correction factor : not applicable

	Measurement result ₁₎		approach speed
	left-hand side dB(A) ₁₎	right-hand side dB(A) ₁₎	
1 st measurement	80	80	24 km/h 2 nd / 3 rd gear
2 nd measurement	79	80	24 km/h 2 nd / 3 rd gear
3 rd measurement	---	---	-- km/h 2 nd / 3 rd gear
Test result	80 dB(A)/E ³⁾		

5.2 Sound level of stationary motorcycle

	left dB(A) ⁴⁾	right dB(A) ⁴⁾	engine speed min ⁻¹
1 st measurement	---	90	3000
2 nd measurement	---	90	3000
3 rd measurement	---	90	3000
Test result	90 dB(A)/E ³⁾		

- 1) measurement values are given rounded, with the 1dB(A) deduction in acc. with provisions of items 2.1.5.2 and 2.1.5.3. of Annex I
- 2) delete where inapplicable
- 3) 'E' indicates that the measurements in question were conducted in accordance with the Directive
- 4) measurement values are given rounded in acc. with the provisions of section 5.4.2 of Annex I

8 Vehicle submitted for test on : December 13, 2006 to December 27, 2006

Date of report : January 17, 2007